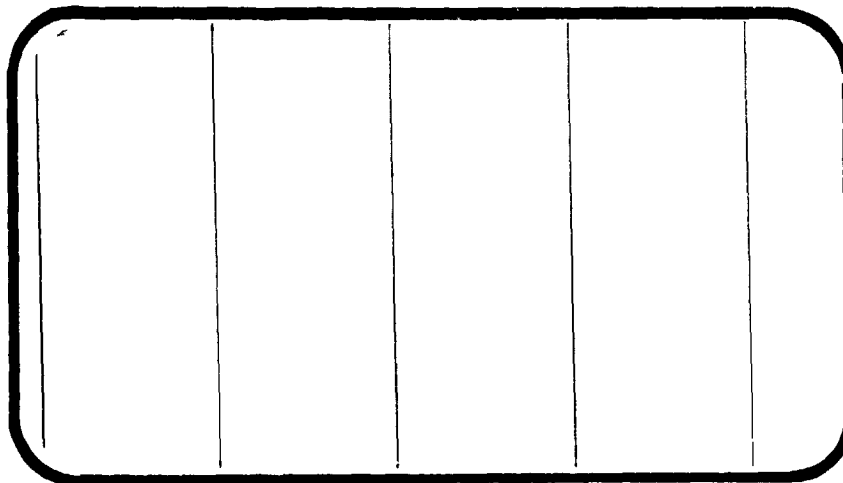




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CONFIGURATION 140A/B ORBITER MODEL IN THE
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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

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INVESTIGATIONS ON AN 0.030-SCALE SPACE SHUTTLE VEHICLE
CONFIGURATION 140A/B ORBITER MODEL
IN THE AMES RESEARCH CENTER
9- BY 7-FOOT SUPERSONIC WIND TUNNEL (OA53B)

By

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Prepared under NASA Contract Number NAS9-13247

By

Data Management Services
Chrysler Corporation Space Division
New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: ARC 97-747
NASA Series Number: OA53B
Model Number: 47-0
Test Dates: 12 through 16 November 1973
Occupany Hours: 104

FACILITY COORDINATOR:

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INVESTIGATIONS ON AN 0.030-SCALE SPACE SHUTTLE VEHICLE

CONFIGURATION 140A/B ORBITER MODEL

IN THE AMES RESEARCH CENTER

9- BY 7-FOOT SUPERSONIC WIND TUNNEL (0A53B)

By M. E. Nichols, Rockwell International Space Division

ABSTRACT

This report documents data obtained in a wind tunnel test of an 0.030-scale Space Shuttle Vehicle Orbiter Configuration 140A/B model in the Ames Research Center 9- by 7-Foot Supersonic Wind Tunnel. This test was conducted from 12 November 1973 to 16 November 1973, in 104 test hours.

This part of test series 0A53 was conducted at Mach numbers of 1.60 and 2.00 and at Reynolds numbers ranging from $1.0 \times 10^6/\text{ft}$ to $4.0 \times 10^6/\text{ft}$.

The objective of test series 0A53 was to establish and verify longitudinal and lateral-directional aerodynamic performance, stability, and control characteristics for the Configuration 140A/B SSV Orbiter. Reynolds number studies were performed on certain nominal control-setting configurations, and examinations were made of the incremental effects of an alternate wing leading-edge configuration and of a sealed elevon-split construction.

Six-component force and moment data, base and cavity pressures, body-tail elevon, speedbrake, and rudder hinge moments, and vertical tail forces and moments were measured for the Orbiter.

TABLE OF CONTENTS

	Page
ABSTRACT	iii
INDEX OF MODEL FIGURES	2
INDEX OF DATA FIGURES	3
NOMENCLATURE	8
CONFIGURATIONS INVESTIGATED	15
TEST FACILITY DESCRIPTION	18
DATA REDUCTION	19
REFERENCES	25
TABLES	
I. TEST CONDITIONS	26
II. DATA SET/RUN NUMBER COLLATION SUMMARY	27
III. MODEL DIMENSIONAL DATA	30
FIGURES	
MODEL	40
DATA	48
APPENDIX	
TABULATED SOURCE DATA	

INDEX OF MODEL FIGURES

Figure	Title	Page
1.	Axis systems.	
a.	Body and stability axes	40
b.	Definition of Hinge-Moment Direction	41
c.	Definition of Angular Measurements	42
2.	Model sketches.	
a.	Configuration 140A/B	43
b.	Dimensional Data	44
c.	Wing Leading-Edge Modification	45
3.	Pressure instrumentation.	
a.	Vertical Tail Balance Pressure Orifice Locations	46
b.	Base Pressure Orifice Locations	47

INDEX OF DATA FIGURES

FIGURE NUMBER	TITLE	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	PLOT PAGES
Fig. 4	Longitudinal Characteristics of Total Vehicle	(A)	MACH	1-13
Fig. 5	Longitudinal Reynolds Number Effects	(A)	RN/L	14-39
Fig. 6	Wing Matrix	(A)		40-65
Fig. 7	Elevon Effects	(B)	ELEVON	66-120
Fig. 8	Bodyflap Effects	(B)	BDFLAP	121-162
Fig. 9	Speedbrake Effects	(B)	SPDBRK	163-204
Fig. 10	Sealed Elevon Split Effects	(B)	ELEVON	205-246
Fig. 11	Lat-Dir Characteristics of Total Vehicle-Part 1	(C)	ALPHA	247-252
Fig. 12	Lat-Dir Characteristics of Total Vehicle-Part 2	(C)	ALPHA	253-258
Fig. 13	Lat-Dir Characteristics of Total Vehicle-Part 3	(C)	ALPHA	259-264
Fig. 14	Lat-Dir Derivatives of Total Vehicle-Part 1	(D)	ALPHA	265-270
Fig. 15	Lat-Dir Derivatives of Total Vehicle-Part 2	(D)	ALPHA	271-276
Fig. 16	Lat-Dir Derivatives of Total Vehicle-Part 3	(D)	ALPHA	277-282
Fig. 17	Aileron Effects	(E)	AILRON	283-288
Fig. 18	Aileron Effectiveness Derivatives	(W)	DA, ELEVON	289-296
Fig. 19	Rudder Effects, Speedbrake 25 Degrees	(C)	ALPHA, RUDDER	297-302

INDEX OF DATA FIGURES (Continued)

FIGURE NUMBER	TITLE	PLOTTED COEFFICIENTS SCHEDULE		CONDITIONS VARYING	PLOT PAGES
Fig. 20	Rudder Effects, Speedbrake 25 Degrees	(C)		ALPHA, RUDDER	303-308
Fig. 21	Rudder Effects, Speedbrake 85 Degrees	(C)		ALPHA	309-314
Fig. 22	Rudder Derivatives, Speedbrake 25 Degrees	(F)		ALPHA	315-322
Fig. 23	Rudder Derivatives, Speedbrake 55 Degrees	(F)		ALPHA, DR	323-330
Fig. 24	Rudder Derivatives, Speedbrake 85 Degrees	(F)		ALPHA	331-338
Fig. 25	Speedbrake Effects	(C)		SPDBRK	339-356
Fig. 26	Incremental Speedbrake Effects (DSB = 55 - 25)	(G)		ALPHA	357-362
Fig. 27	Incremental Speedbrake Effects (DSB = 85 - 25)	(G)		ALPHA	363-368
Fig. 28	Speedbrake Derivatives, 55 Deg. Deflect. (Baseline = 25 Degrees)	(H)		ALPHA	369-376
Fig. 29	Speedbrake Derivatives, 85 Deg. Deflect. (Baseline = 25 Degrees)	(H)		ALPHA	377-384
Fig. 30	Elevon Hinge Moments	(I)		ELEVGN	385-390
Fig. 31	Bodyflap Hinge Moments	(J)		BDFLAP	391-392
Fig. 32	Rudder Hinge Moments, 0.0 Degrees Rudder	(K)		ALPHA, SPDBRK	393-402
Fig. 33	Rudder Hinge Moments, -10 Degrees Rudder	(K)		ALPHA, SPDBRK	403-412
Fig. 34	Rudder Hinge Moments, -25 Degrees Rudder	(K)		ALPHA	413-422
Fig. 35	Speedbrake Hinge Moments	(L)		SPDBRK	423-434

INDEX OF DATA FIGURES (Continued)

FIGURE NUMBER	TITLE	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	PLOT PAGES
Fig. 36	Effect of Aileron Deflection on Vertical Tail	(M)	ALPHA	435-440
Fig. 37	Effect of Rudder Deflection on Vertical Tail, Speedbrake = 25 Degrees	(N)	ALPHA	441-444
Fig. 38	Vertical Tail Loads Versus Sideslip, Speedbrake = 25 Degrees	(O)	ALPHA	445-448
Fig. 39	Vertical Tail Loads Versus Sideslip, Speedbrake = 55 Degrees	(O)	ALPHA	449-454
Fig. 40	Effect of Rudder Deflection on Elevon Hinge Moment, Speedbrake = 25 Degrees	(P)	ALPHA	455-460
Fig. 41	Effect of Rudder Deflection on Bodyflap Hinge Moment, Speedbrake = 25 Degrees	(Q)	ALPHA	461-462
Fig. 42	Effect of Aileron Deflection on Rudder Hinge Moment	(R)	ALPHA	463-472
Fig. 43	Effect of Aileron Deflection on Bodyflap Hinge Moment	(S)	ALPHA	473-474
Fig. 44	Aileron Interactions, Right Elevon = 15 Degs.	(T)	ALPHA	475-480
Fig. 45	Aileron Interactions, Right Elevon = -20 Degs.	(T)	ALPHA	481-486
Fig. 46	Elevon Panel Hinge Moments Versus Angle of Attack	(U)	ELEVON	487-490
Fig. 47	Rudder Panel Hinge Moments Versus Angle of Attack, Speedbrake = 25 Degrees	(V)	ALPHA	491-506

INDEX OF DATA FIGURES (Continued)

FIGURE NUMBER	TITLE	PLOTTED		PLOT PAGES
		COEFFICIENTS SCHEDULE	CONDITIONS VARYING	
Fig. 48	Effect of Rudder Deflection on Vertical Tail, Speedbrake = 55 Degrees	(N)	ALPHA	507-510
Fig. 49	Effect of Rudder Deflection on Elevon Hinge Moment, Speedbrake = 55 Degrees	(P)	ALPHA	511-516
Fig. 50	Effect of Rudder Deflection on Bodyflap Hinge Moment, Speedbrake = 55 Degrees	(Q)	ALPHA	517-518
Fig. 51	Rudder Panel Hinge Moment Versus Sideslip Angle, Speedbrake = 55 Degrees	(V)	ALPHA	519-542

SCHEDULE OF COEFFICIENTS PLOTTED:

- (A) CL, CD, CDF, CA, CAF, CAB, CN, CLMFWD, CLMAFT, L/D, XCP/L, versus ALPHA
CN versus CLMFWD
CL versus CD
- (B) CL, CD, CDF, CA, CAF, CAB, CN, CLMFWD, CLMAFT, L/D, XCP/L versus ALPHA
CN versus CLMFWD
CL versus CD
DCL, DCD, DCA, DCAF, DCAB, DCN, DCMFWD, DCMMAFT versus ALPHA
- (C) CY, CYN, CBL versus BETA
- (D) CYBETA, CYNBET, CBLBET versus ALPHA

INDEX OF DATA FIGURES (Concluded)

- (E) CY, CYN, CBL versus ALPHA
- (F) DCY/DR, DCYNDR, DCBLDR, DCLMDR versus BETA
- (G) DCY, DCYN, DCBL versus BETA
- (H) DCY/DS, DCYNDS, DCBLDS, DCLMDS versus BETA
- (I) CHET, CHEI, CHEO versus ALPHA
- (J) CHBF versus ALPHA
- (K) CHR, CHUL, CHLL, CHUR, CHLR versus BETA
- (L) CHSB, CHUL, CHLL, CHUR, CHLR, DCHDSB versus ALPHA
- (M) CYV, CYNV versus AILRON
- (N) CYV, CYNV versus RUDDER
- (O) CYV, CYNV versus BETA
- (P) CHET, CHEI, CHEO versus RUDDER
- (Q) CHBF versus RUDDER
- (R) CHR, CHUL, CHLL, CHUR, CHLR versus AILRON
- (S) CHBF versus AILRON
- (T) CHET, CHEI, CHEO versus ELEV-L
- (U) CHEI, CHEO versus ALPHA
- (V) CHUL, CHLL, CHUR, CHLR versus BETA
- (W) DCY/DA, DCYNDA, DCBLDA, DCLMDA versus ALPHA

NOMENCLATURE

Symbol	SADSAC Symbol	Definition
Body Axis		
C_N	CN	normal-force coefficient
C_A	CA	axial-force coefficient
C_{A_F}	CAF	forebody axial-force coefficient
C_m	CLM	pitching-moment coefficient
C_Y	CY	side-force coefficient
C_n	CYN	yawing-moment coefficient
C_l	CBL	rolling-moment coefficient
Stability Axis (Coefficients utilizing C_A)		
C_L	CL	lift coefficient
C_D	CD	drag coefficient
C_m	CLM	pitching-moment coefficient
C_{n_s}	CLN	stability yawing-moment coefficient
C_{l_s}	CSL	stability rolling-moment coefficient
Stability Axis (Coefficients utilizing C_{A_F})		
C_{L_F}	CLF	forebody lift coefficient
C_{D_F}	CDF	forebody drag coefficient

C_{m_F}	CMF	forebody pitching-moment coefficient
L/D	L/D	lift-to-drag ratio
L_F/D_F	LF/DF	forebody lift-to-drag ratio
X_{CP}/l_B	XCP/L	longitudinal center of pressure location of total vehicle, percent reference body length
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
M	MACH	free-stream Mach number
P_o	PO	free-stream static pressure, psia
P_T	PT	total pressure, psia
q	Q	free-stream dynamic pressure (psf)
RN/ft	RN/L	unit Reynolds number, per foot
TTAV	TTAV	average total temperature, deg. R

Vertical Tail Data

Body Axis

C_{N_V}	CNV	vertical normal-force coefficient
C_{A_V}	CAV	vertical axial-force coefficient
C_{m_V}	CMV	vertical pitching-moment coefficient
C_{Y_V}	CYV	vertical side-force coefficient
C_{n_V}	CYNV	vertical yawing-moment coefficient
C_{l_V}	CBLV	vertical rolling-moment coefficient

Pressure Coefficients and Pressure Corrections

C_{PB_i}	CPBI	pressure coefficient for individual base pressures
C_{PB}	CPB	average base pressure coefficient
$C_{P_{SC_j}}$	CPSCJ	pressure coefficient for individual sting-cavity pressures
$C_{P_{SC}}$	CPSC	average sting-cavity pressure coefficient
C_{AB}	CAB	base axial-force coefficient
C_{ASC}	CASC	sting-cavity axial-force coefficient

Hinge Moments

C_{HR}	CHR	rudder hinge-moment coefficient
C_{HE_I}	CHEI	inboard elevon hinge-moment coefficient
C_{HE_O}	CHEO	outboard elevon hinge-moment coefficient
C_{HE_T}	CHET	total elevon hinge-moment coefficient
$C_{H_{UL}}$	CHUL	speedbrake hinge-moment coefficient (upper left)
$C_{H_{LL}}$	CHLL	speedbrake hinge-moment coefficient (lower left)
$C_{H_{UR}}$	CHUR	speedbrake hinge-moment coefficient (upper right)
$C_{H_{LR}}$	CHLR	speedbrake hinge-moment coefficient (lower right)

$C_{H_{BF}}$	CHBF	bodyflap hinge-moment coefficient
$C_{H_{SB}}$	CHSB	total speedbrake hinge-moment coefficient
$C_{P_{V_1}}$	CPV1	pressure coefficient for P_{V_1}
$C_{P_{V_2}}$	CPV2	pressure coefficient for P_{V_2}
$C_{P_{V_3}}$	CPV3	pressure coefficient for P_{V_3}
$C_{P_{V_4}}$	CPV4	pressure coefficient for P_{V_4}
$C_{A_{VB}}$	CAVB	vertical tail base axial-force coefficient
$\frac{x_{CP_V}}{l_B}$	XCPV/L	longitudinal center-of-pressure location of vertical tail forces
$\frac{z_{CP_V}}{l_B}$	ZCPV/L	vertical center-of-pressure location of vertical tail forces
$P_{V_1}, P_{V_2}, P_{V_3}, P_{V_4}$		pressure on vertical tail at stations 1, 2, 3, 4 respectively, psia

NOMENCLATURE (Continued)
ADDITIONS TO NOMENCLATURE

C_{mFWD}	CLMFWD	pitching moment coefficient (FWD C.G.)
C_{mAFT}	CLMAFT	pitching moment coefficient (AFT C.G.)
δ_{eL}	ELEV-L	left elevon deflection
ΔC_L	DCL	incremental lift coefficient
ΔC_D	DCD	incremental drag coefficient
ΔC_A	DCA	incremental axial force coefficient
ΔC_{AF}	DCAF	incremental forebody axial force coefficient
ΔC_{AB}	DCAB	incremental base axial force coefficient
ΔC_N	DCN	incremental normal force coefficient
ΔC_{mFWD}	DCMFWD	incremental pitching moment coefficient (FWD C.G.)
ΔC_{mAFT}	DCMAFT	incremental pitching moment coefficient (AFT C.G.)
ΔC_y	DCY	incremental side force coefficient
ΔC_n	DCYN	incremental yawing moment coefficient
ΔC_l	DCBL	incremental rolling moment coefficient
$C_y \delta_{SB}$	DCY/DS	side force coefficient derivative with respect to speed brake deflection. Algebraic difference of the side force coefficient of two runs divided by the algebraic difference of the speed brake angle of the runs; per degree.
$C_n \delta_{SB}$	DCYNDS	yawing moment coefficient derivative with respect to speed brake deflection. Algebraic difference of the yawing moment coefficient of two runs divided by the algebraic difference of the speed brake angle of the runs; per degree

NOMENCLATURE (Continued)

$C_{l_{\delta SB}}$	DCBLDS	rolling moment coefficient derivative with respect to speed brake deflection. Algebraic difference of the rolling moment coefficient of two runs divided by the algebraic difference of the speed brake angle of the runs; per degree.
$C_{m_{\delta SB}}$	DCLMDS	pitching moment coefficient derivative with respect to speed brake deflection. Algebraic difference of the pitching moment coefficient of two runs divided by the algebraic difference of the speed brake angle of the runs; per degree.
$C_{m_{\delta a}}$	DCLMDA	pitching moment coefficient derivative with respect to aileron deflection. Algebraic difference of the pitching moment coefficient of two runs divided by the algebraic difference of the total aileron deflection angle of the runs; per degree.
$C_{m_{\delta r}}$	DCLMDR	pitching moment coefficient derivative with respect to rudder deflection. Algebraic difference of the pitching moment coefficient of two runs divided by the algebraic difference of the total rudder deflection of the runs; per degree.
$C_{H_{SB\delta}}$	DCHDSB	speed brake hinge moment derivative with respect to speed brake deflection. Algebraic difference of the speed brake hinge moment coefficient of two runs divided by the algebraic difference of the speed brake deflection angle of the runs; per degree.
$\Delta\alpha_a$	DA	algebraic difference of aileron deflection angle between two runs; degrees.
$\Delta\delta_e$	DE	algebraic difference of elevon deflection angle between two runs; degrees.
$\Delta\delta_r$	DR	algebraic difference of rudder deflection angle between two runs; degrees.
$\Delta\delta_{BF}$	DBF	algebraic difference of body flap deflection angle between two runs; degrees.
δ_a	AILRON	aileron, total aileron deflection angle, degrees, (left aileron - right aileron)/2.

NOMENCLATURE (Concluded)

δ_{BF}	BDFLAP	body flap, surface deflection angle; degrees.
δ_e	ELEVON	elevon, surface deflection angle; degrees.
δ_r	RUDDER	rudder, surface deflection angle; degrees.
δ_{SB}	SPDBRK	speedbrake, split rudder inclusive deflection angle between outer surfaces; degrees.

CONFIGURATIONS INVESTIGATED

The Configuration 140A/B Space Shuttle Vehicle Orbiter was the subject of the OA53 test series. An 0.030-scale Orbiter model was employed. Sealed elevon-split and alternate leading-edge investigations were carried out. Various elevon, aileron, bodyflap, speedbrake, and rudder control settings were applied.

The following nomenclature designated model components:

Component	Description
B ₂₆	140A/B fuselage (VL70-000140A, VL70-000145, VL70-000140B, VL70-000143A, VL70-000139)
C ₉	140A/B basic canopy (VL70-000140A, VL70-000143A)
F ₉	140A/B bodyflap (VL70-000140B, VL70-00200)
M ₇	OMS/RCS pods for 140A/B Orbiter
N ₂₈	OMS basic nozzles for 140A/B configuration
V ₈	Basic Orbiter vertical tail (VL70-000146A)
R ₅	Basic Orbiter rudder (VL70-000146A, VL70-000095)
W ₁₁₆	Basic 140A/B wing (VL70-000140B, VL70-000200)
E ₂₆	Basic 140A/B elevons (VL70-000200, VL70-006089, VL70-006092)
W ₂₁	Alternate leading edge wing configuration (VL70-000219, VL70-000200, VL70-006089, VL70-006092)

Reference dimensions and constants for Orbiter data were:

Symbol	Definition	Value
A _B	(see below for base areas) $\sum_{i=1}^6 A_{B,i}$	0.298472 ft ²

A_{SC}	Sting-cavity area	0.07670 ft ²
b_w	Reference wing span	28.1004 inches
\bar{c}_w	Reference MAC	14.244 inches
l_B	Reference body length (IML)	38.709 inches
S_w	Reference wing area	2.4210 ft ²
x_{CG}	Longitudinal length, nose to moment reference center	25.251 inches
y_{CG}	Lateral length, plane of symmetry to moment reference center	0.000 inch
z_{CG}	Vertical length, FRP to moment reference center	-0.750 inch
\bar{c}_E	Elevon chord	2.7210 inches
\bar{c}_R	Rudder chord	2.2110 inches
\bar{c}_{SB}	Speedbrake chord	2.2110 inches
\bar{c}_{BF}	Bodyflap chord	2.541 inches
S_E	Reference elevon area	0.18900 ft ²
S_R	Reference rudder area	0.090135 ft ²
S_{SB}	Reference speedbrake area	0.090135 ft ²
S_{BF}	Reference bodyflap area	0.12834 ft ²
Orbiter Base Area (ft ²)		
A_{B_1}	0.050764	
A_{B_2} (OMS)	0.087153	

1	A_{B_3}	.033333
	A_{B_4}	.060069
	A_{B_5}	.028472
	A_{B_6}	.038681

TEST FACILITY DESCRIPTION

The Ames Research Center 9- by 7-Foot Supersonic Wind Tunnel is a closed-circuit, air-medium, variable-density facility capable of attaining Mach numbers from 1.55 to 2.50 at Reynolds numbers from $1.5 \times 10^6/\text{ft}$ to $6.5 \times 10^6/\text{ft}$. The 18-foot-long test section is part of a dual system of supersonic circuits and uses the same motors and compressor as the 8- by 7-foot tunnel. A sliding-block throat arrangement is used to control tunnel Mach number.

Models are supported by means of stings attached to the wall-to-wall strut/BOR system of the 9- by 7-foot tunnel.

Schlieren photograph, shadowgraphs, and pressure monitoring instrumentation are available.

DATA REDUCTION
A. Data Reduction for the Orbiter

Standard ARC methods were used to compute coefficient data.

One set of body- and two sets of stability-axis data are used. The first stability-axis data set has the axial-force coefficient corrected to the base pressure, whereas the second stability-axis data set has the axial-force coefficient corrected to free-stream pressure.

The following outputs are some of those required for data presentation.

Pressure coefficient was computed for each pressure (P_{B_i}) as follows:

$$C_{P_{B_i}} = \frac{P_{B_i} - P_o}{q}$$

where

P_{B_i} = pressure at base orifice i

P_o = free-stream static pressure

q = free-stream dynamic pressure

Pressure coefficient was computed for each sting-cavity pressure (P_{SC_j}) as follows:

$$C_{P_{SC_j}} = \frac{P_{SC_j} - P_o}{q}$$

where

P_{SC_j} = pressure at sting-cavity orifice j

Average (area-weighted) base pressure coefficient was computed as follows:

$$C_{P_B} = \frac{P_B - P_o}{q}$$

where

$$P_B = \frac{\sum_{i=1}^6 P_{B_i} A_{B_i}}{\sum_{i=1}^6 A_{B_i}}$$

and

6 = number of base pressures

P_{B_i} = pressure at base orifice i

A_{B_i} = area assigned to base orifice i

Average (numerically averaged) sting-cavity pressure coefficient was computed as follows:

$$C_{p_{SC}} = \frac{P_{SC} - P_o}{q}$$

where

$$P_{SC} = \frac{\sum_{j=1}^2 P_{SC_j}}{2}$$

and

2 = number of sting-cavity pressures

P_{SC_j} = pressure at sting-cavity orifice j

Base axial-force coefficient was computed as follows:

$$C_{A_B} = \frac{-[C_{p_B} (A_B) + C_{p_{SC}} (A_{SC})]}{S_w}$$

where

A_B = area of base (total)

A_{SC} = area of sting-cavity

S_w = wing reference area

Sting-cavity axial-force coefficient was computed as follows:

$$C_{A_{SC}} = \frac{-(P_{SC} - P_B) A_{SC}}{q S_w}$$

Axial-force coefficient adjusted to the average (area-weighted) base pressure was computed as follows:

$$C_A = C_{A_U} - C_{A_{SC}}$$

where

C_{A_U} = axial-force coefficient unadjusted for base or sting-cavity pressures

Axial-force coefficient corrected to freestream static pressure (forebody axial-force coefficient) was computed as follows:

$$C_{A_F} = C_{A_U} - C_{A_B}$$

Center-of-pressure location, in percent of reference body length was computed as follows:

$$\frac{x_{CP}}{l_B} = \frac{x_{CG} - \frac{C_m \bar{c}_w}{C_N}}{l_B}$$

where

x_{CG} = center-of-gravity location aft of model nose

l_B = reference body length

Lift-to-drag ratios, based on each of the two sets of stability axis data were computed as follows:

$$\frac{L}{D} = \frac{C_L}{C_D}, \text{ based on } C_A$$

$$\frac{L_F}{D_F} = \frac{C_{L_F}}{C_{D_F}}, \text{ based on } C_{A_F}$$

Rudder hinge-moment coefficient was computed as follows:

$$C_{H_R} = \frac{HM_R}{q S_R \bar{c}_R}$$

where

$$HM_R = HM_{SB_{UL}} + HM_{SB_{LL}} - HM_{SB_{UR}} - HM_{SB_{LR}}$$

Inboard-elevon hinge-moment coefficient was computed as follows:

$$C_{H_{E_I}} = \frac{HM_{E_I}}{q S_E \bar{c}_E}$$

Outboard-elevon hinge-moment coefficient was computed as follows:

$$C_{H_{E_O}} = \frac{HM_{E_O}}{q S_E \bar{c}_E}$$

Total elevon hinge-moment coefficient was computed as follows:

$$C_{H_{E_T}} = C_{H_{E_I}} + C_{H_{E_O}}$$

Speedbrake hinge-moment coefficient was computed as follows:

$$C_{H_{SB_k}} = \frac{HM_{SB_k}}{q S_{SB} \bar{c}_{SB}}$$

where k = two upper and two lower speedbrake panels

Bodyflap hinge-moment coefficient was computed as follows:

$$C_{H_{BF}} = \frac{HM_{BF}}{q S_{BF} \bar{c}_{BF}}$$

B. Data Reduction for Vertical Tail Instrumentation

Standard ARC methods were used to compute six-component data.

The data were reduced to coefficient form using the wing area (S_w), wing chord (\bar{c}_w), and wing span (b_w). Moments were determined about the balance center, and then transferred to the model C.G.

Pressure coefficients were computed for vertical base pressures, P_{V1} and P_{V2} as follows:

$$C_{P_{V1,2}} = \frac{P_{V1,2} - P_0}{q}$$

Pressure coefficients were computed for vertical cavity pressures, P_{V3} and P_{V4} as follows:

$$C_{P_{V3,4}} = \frac{P_{V3,4} - P_0}{q}$$

Vertical tail base axial-force correction was computed as follows:

$$C_{A_{VB}} = \frac{-[(C_{P_{V2}} - C_{P_{V3}}) A_{V2} + C_{P_{V1}} A_{V1}]}{S_w}$$

Vertical tail axial-force coefficient corrected to freestream pressure was computed as follows:

$$C_{A_V} = C_{A_{VU}} - C_{A_{VB}}$$

where

$C_{A_{VU}}$ = vertical tail axial-force coefficient
unadjusted for base pressures

Center-of-pressure locations on the vertical tail were computed as follows:

$$x_{CP_V} = x_{CG} - \frac{C_{n_{VBODY}} b_w}{C_{Y_{VBODY}}}$$

(where "BODY" means "body-axis")

$$z_{CP_V} = z_{CG} + \frac{C_{l_{VBODY}} b_w}{C_{Y_{VBODY}}}$$

Pressure coefficient for each extra "monitoring" pressure (P_{X_i}) was computed as follows:

$$C_{P_{X_i}} = \frac{P_{X_i} - P_o}{q}$$

Reference dimensions and constants for the vertical tail were:

<u>Symbol</u>	<u>Comments</u>	<u>Value</u>
A_{V_1}	See figures	0.00625 ft ²
A_{V_2}	See figures	0.01326 ft ²
S_w	Given in previous section	
b_w	Given in previous section	
l_B	Given in previous section	
x_{CG}	Given in previous section	
z_{CG}	Given in previous section	

REFERENCES

1. Rockwell International Space Division Technical Report No. SD73-SH-0276: "Pretest Information for Tests of the 0.030-Scale Space Shuttle Orbiter Force Model 47-0 in the NASA/Ames 11- by 11-Foot, 9- by 7-Foot, and 8- by 7-Foot Unitary Plan Wind Tunnels (OA53A,B,C)", by M. D. Milam, E. Chee, and M. E. Nichols, 19 October 1973.
2. Rockwell International Space Division Internal Letter No. SAS/WT0/73-205: "Model Design Requirements for the 0.030-Scale Pressure/Loads Model 47-OTS," 20 June 1973.
3. NASA-CR-134,114 (DMS-DR-2128, Vol. I); "Investigations on an 0.030-Scale Space Shuttle Vehicle Configuration 140A/B Orbiter Model in the Ames Research Center 11-by 11-foot Transonic Wind Tunnel (OA53A)," by M. D. Milam, and M. E. Nichols, July 1974.
4. NASA-CR-134, 115 (DMS-DR-2128, Vol. II); "Investigations on an 0.030-Scale Space Shuttle Vehicle Configuration 140A/B Orbiter Model in the Ames Research Center 11-by 11-foot Transonic Wind Tunnel (OA53A)," by M. D. Milam, E. Chee, and M. E. Nichols, July 1974.
5. NASA-CR-134, 120 (DMS-DR-2185); "Investigations on an 0.030-Scale Space Shuttle Vehicle Configuration 140A/B Orbiter Model in the Ames Research Center Unitary Plan 8-by 7-foot Supersonic Wind Tunnel (OA53C)," by M. D. Milam, E. Chee, and M. E. Nichols, July 1974.

1

26

TABLE II

TEST: 97-747-1 0A53B

DATE 16 NOV 1973

DATA SET RUN NUMBER COLLATION SUMMARY

TABLE 11

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES				RM	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)										TEST RUN NUMBERS
		α	β	δR	$\delta \theta$	$\delta \phi$	$\delta \psi$		0.6	0.8	0.9	1.05	1.2	1.6	2.0	2.5	3.0	3.5	
REX 001	BCMF WIV	A	0	0	22.5	55	0	2.75	0.6	0.8	0.9	1.05	1.2	1.6	2.0	2.5	3.0	3.5	
02		A	0	-10	-11.7									1	2				
03		B	0	115										3	4				
04				5.5										10	9				
05				5	-15									6	5				
06				0.15										8	7				
07				15	16.3									12	11				
08								3.48						14	13				
09								2.75						18	17				
10								1.40						19	20				
11								2.75						22	21				
12					-11.7									27	23				
13														28	24				
14														29	25				
15														30	26				
16								1.25						36	35				
17								2.75						33	34				
18								4.0						32	31				
								1.25						37	38				

NOTE: FOR COEFFICIENTS RECORDED SEE DATASETS IN APPENDIX.

COEFFICIENTS

$\alpha(A) = -3, 0, 3, 6, 9, 12, 15, 18, 21, 24, 27$
 $\alpha(B) = -1.25, 0, 1.5, 3.5, 5.5, 7.5, 9.5, 12.5, 18.5, 21.5, 24.5, 28.5, 0$

$\beta(B) = -5, -3, -1, 0, 1, 3, 5, 7, 9$

α OR β

SC-EDULES

7576

TABLE II - Continued

[illegible]

100

29

TABLE III. - MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - B₂₆

GENERAL DESCRIPTION Orbiter fuselage configuration 140A, B

NOTE: B₂₆ identical to B₂₄ except underside of fuselage refaired to accept W116.

MODEL SCALE: 0.030

DRAWING NUMBER VL70-000139, VL70-000140A, VL70-000140B, VL70-000143A, VL70-000145

DIMENSIONS	FULL SCALE	MODEL SCALE
Length (Body Fwd Sta $X_0=235$) - In.	<u>1293.3</u>	<u>38.799 (OML)</u>
Max Width (@ $X_0 = 1520$) - In.	<u>262.0</u>	<u>7.860</u>
Max Depth (@ $X_0 = 1464$) - In.	<u>250.0</u>	<u>7.500</u>
Fineness Ratio	<u>0.26357</u>	<u>0.26357</u>
Area - Ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u>340.88462</u>	<u>0.30679</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : CANOPY - C₉

GENERAL DESCRIPTION : Configuration 140 A/B orbiter fuselage canopy

MODEL SCALE: 0.030

DRAWING NUMBER : VL70-000140A, VL70-000143A

DIMENSIONS	FULL SCALE	MODEL SCALE
Length ($X_0 = 434.643$ to 578)-In.	<u>143.357</u>	<u>4.30071</u>
Max Width ($@ X_0 = 513.127$)	<u>152.412</u>	<u>4.57236</u>
Max Depth ($@ X_0 = 485.0$)	<u>25.000</u>	<u>0.75000</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT BODY FLAP - F₃

GENERAL DESCRIPTION Configuration 140 A/B body flap

MODEL SCALE: 0.030

DRAWING NUMBER VL70-000140B, VL70-000200

DIMENSIONS	FULL SCALE	MODEL SCALE
Length - In.	<u>84.7</u>	<u>2.541</u>
Max Width - In.	<u>262.308</u>	<u>7.86924</u>
Max Depth - In.	<u>24.000</u>	<u>0.69000</u>
Fineness Ratio	<u></u>	<u></u>
Area - Ft ²	<u></u>	<u></u>
Max. Cross-Sectional	<u></u>	<u></u>
Planform	<u>158.85350</u>	<u>0.14297</u>
Wetted	<u></u>	<u></u>
Base	<u>41.89642</u>	<u>0.03771</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT OMS PODS - M₇

GENERAL DESCRIPTION Configuration 140 A/B OMS Pods

MODEL SCALE: 0.030

DRAWING NUMBER VL70-000140A, VL70-000145

DIMENSIONS	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta. $X_0=1233.0$ (In.))	<u>327.000</u>	<u>9.810</u>
Max Width (@ $X_0 = 1450.0$) - In.	<u>94.5</u>	<u>2.8350</u>
Max Depth (@ $X_0 = 1493.0$) - In.	<u>109.000</u>	<u>3.270</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: NOZZLES - N₂₈

GENERAL DESCRIPTION: Configuration 140 A/B OMS

MODEL SCALE: 0.030

DRAWING NO.: VL70-000140A

DIMENSIONS:	FULL SCALE	MODEL SCALE
Gimbal Origin		
Fuselage Sta. - In.		
X	1518	45.54
Y	+ 88.0	2.64
Z	492.0	14.76
Null Position		
Pitch	15°49'	15°49'
Yaw	12°17'	12°17'
Gimbal Range		
Pitch		
Outboard	+ 8°	+ 8°
Yaw		
Outboard	13°17'	13°17'
Inboard	2°30'	2°30'

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: VERTICAL - V8

GENERAL DESCRIPTION: Configuration 140 A/B vertical tail.

NOTE: Similar to V5 with radius on T.E. upper corner and L.E. lower corner where vertical meets fuselage.

MODEL SCALE: 0.030

DRAWING NUMBER: VL70-000140A, VL70-000146A

DIMENSIONS:	FULL SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo) - Ft ²		
Planform	413.253	0.37193
Span (Theo) - In.	315.727	9.46160
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	0.40399	0.40399
Sweep-Back Angles - Degrees		
Leading Edge	45.00	45.00
Trailing Edge	25.947	25.947
0.25 Element Line	41.130	41.130
Chords:		
Root (Theo) WP	268.500	8.05500
Tip (Theo) WP	108.470	3.25410
MAC	199.80756	5.99423
Fus. Sta. of .25 MAC	1463.50	43.9050
W.P. of .25 MAC	635.522	19.06566
B.L. of .25 MAC		
Airfoil Section		
Leading Wedge Angle - Deg.	10.00	10.00
Trailing Wedge Angle - Deg.	14.920	14.920
Leading Edge Radius (Min.) - In.	2.00	0.060
Void Area	13.17	0.01185
Blanketed Area	0.0	0.0

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: RUDDER - R₅

GENERAL DESCRIPTION: 140 A/B configuration per Rockwell Lines
VL70-000095.

MODEL SCALE: 0.030

DRAWING NUMBER: VL70-000095, VL70-000146A

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft ²	<u>106.38</u>	<u>0.09574</u>
Span (equivalent) - In.	<u>201.0</u>	<u>6.0300</u>
Inb'd equivalent chord - In.	<u>91.585</u>	<u>2.74755</u>
Outb'd equivalent chord - In.	<u>50.833</u>	<u>1.52499</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.83</u>	<u>34.83</u>
Trailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
Area Moment (Normal to hinge line) Ft ³	<u>526.13</u>	<u>0.01420</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: <u>WING-W₁₁₆</u>		
GENERAL DESCRIPTION: <u>Configuration 140 A/B basic wing</u>		
NOTE: <u>Identical to W114 except airfoil thickness. Dihedral angle is</u> <u>given for trailing edge of wing.</u>		
MODEL SCALE: <u>0.030</u>		
TEST NO.	DWG. NO.	VL70-0001453 VL70-000100
<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
<u>TOTAL DATA</u>		
Area (Theo.) - Ft ²		
Planform	2690.00	2.4210
Span (Theo.) - In.	936.6814	28.10045
Aspect Ratio	2.265	2.265
Rate of Taper	1.177	1.177
Taper Ratio	0.200	0.200
Dihedral Angle, degrees	3.500	3.500
Incidence Angle, degrees	0.500	0.500
Aerodynamic Twist, degrees	+3.00	+3.000
Sweep Back Angles, degrees		
Leading Edge	45.00	45.00
Trailing Edge	- 10.250	- 10.056
0.25 Element Line	35.209	35.209
<u>Chords:</u>		
Root (Theo) B.P.O.O.	689.2429	20.67729
Tip, (Theo) B.P.	137.8486	4.13546
MAC	474.8117	14.24435
Fus. Sta. of .25 MAC	1126.721	33.80163
W.P. of .25 MAC	291.00	8.73000
B.L. of .25 MAC	- 187.33407	- 5.62005
<u>EXPOSED DATA</u>		
Area (Theo) - Ft ²	1812.2205	1.63910
Span, (Theo) - In. BP108	736.6816	22.10045
Aspect Ratio	2.058	2.058
Taper Ratio	0.2451	0.2451
<u>Chords</u>		
Root BP108	570.6230	17.11869
Tip 1.00 $\frac{b}{2}$	137.851	4.13554
MAC	354.2376	10.62713
Fus. Sta. of .25 MAC	1164.237	34.92711
W.P. of .25 MAC	292.00	8.76000
B.L. of .25 MAC	- 239.67786	- 7.19034
<u>Airfoil Section (Rockwell Mod NASA)</u> <u>XXXX-64</u>		
Root $\frac{b}{2}$	0.113	0.113
Tip $\frac{b}{2}$	0.12	0.12
<u>Data for (1) of (2) Sides</u>		
Leading Edge Cuff		
Planform Area - Ft ²	79.13389	0.10650
Leading Edge Intersects Fus M. L. @ Sta	505.0	14.15000
Leading Edge Intersects Wing @ Sta	1084.5	30.10500

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ELEVON - E₂₆

GENERAL DESCRIPTION: Configuration 140A/B Orbiter Elevons

Data for one side.

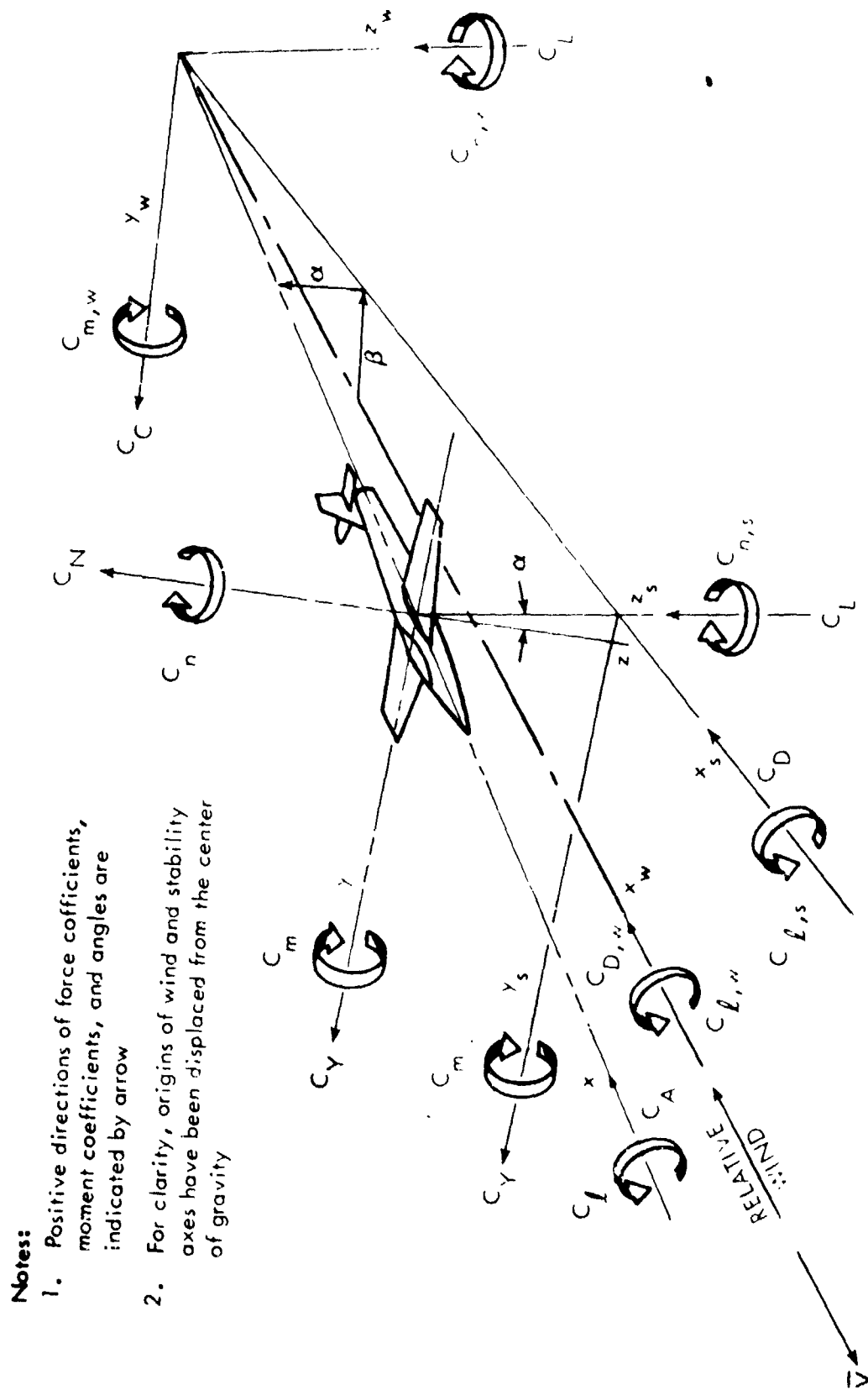
MODEL SCALE: 0.030 MODEL DRAWING: S3-A00148, RELEASE 6

DRAWING NUMBER: VL70-000200, VL70-006089, VL70-006092

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft ²	<u>210.0</u>	<u>0.1890</u>
Span (equivalent) - In.	<u>349.2</u>	<u>10.476</u>
Inb'd equivalent chord - In.	<u>118.004</u>	<u>3.540</u>
Outb'd equivalent chord - In.	<u>55.192</u>	<u>1.656</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Tailing Edge	<u>- 10.056</u>	<u>- 10.056</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
Area Moment (Normal to hinge line) Ft ³	<u>1587.25</u>	<u>0.005670</u>
Mean Aerodynamic Chord - In.	<u>90.70</u>	<u>2.721</u>

TABLE III. - MODEL DIMENSIONAL DATA - Concluded.

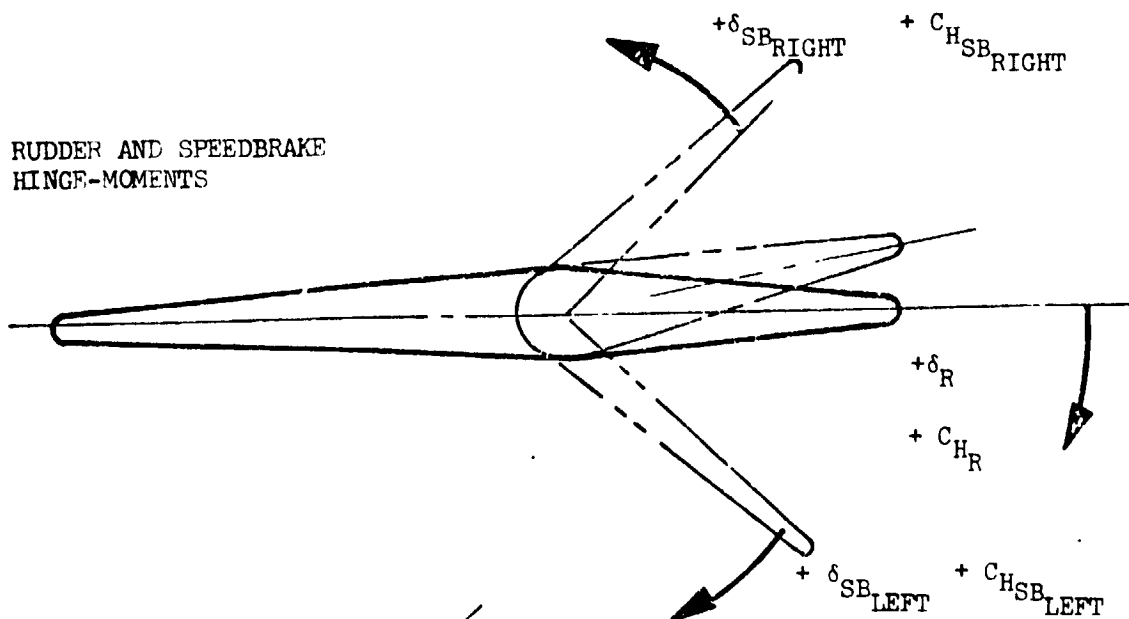
MODEL COMPONENT: <u>WING-W₁₂₁</u>		
GENERAL DESCRIPTION: <u>Identical to W₁₂₁ except for modified leading edge as shown on Figure 2c.</u>		
MODEL SCALE: <u>0.030</u>		
TEST NO.	DWG. NO. <u>VL70-000200, -006089,</u> <u>-000219, -006092</u>	
DIMENSIONS:	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
TOTAL DATA		
Area (Theo.) Ft ²		
Planform	<u>2690.0</u>	<u>2.421</u>
Span (Theo In.	<u>936.682</u>	<u>28.100</u>
Aspect Ratio	<u>2.265</u>	<u>2.265</u>
Rate of Taper	<u>1.177</u>	<u>1.177</u>
Taper Ratio	<u>0.200</u>	<u>0.200</u>
Dihedral Angle, degrees	<u>3.500</u>	<u>3.500</u>
Incidence Angle, degrees	<u>0.500</u>	<u>0.500</u>
Aerodynamic Twist, degrees	<u>+ 3.000</u>	<u>+ 3.000</u>
Sweep Back Angles, degrees		
Leading Edge	<u>45.000</u>	<u>45.000</u>
Trailing Edge	<u>- 10.056</u>	<u>- 10.056</u>
0.25 Element Line	<u>35.209</u>	<u>35.209</u>
Chords:		
Root (Theo) B.P.O.O.	<u>689.243</u>	<u>20.677</u>
Tip, (Theo) B.P.	<u>137.849</u>	<u>4.135</u>
MAC	<u>474.812</u>	<u>14.244</u>
Fus. Sta. of .25 MAC	<u>1126.721</u>	<u>33.802</u>
W.P. of .25 MAC	<u>291.00</u>	<u>8.730</u>
B.L. of .25 MAC	<u>187.335</u>	<u>5.620</u>
EXPOSED DATA		
Area (Theo) Ft ²	<u>1812.221</u>	<u>1.631</u>
Span, (Theo) In. BP108	<u>736.682</u>	<u>22.100</u>
Aspect Ratio	<u>2.058</u>	<u>2.058</u>
Taper Ratio	<u>0.245</u>	<u>0.245</u>
Chords		
Root BP108	<u>570.623</u>	<u>1.631</u>
Tip 1.00 $\frac{b}{2}$	<u>137.851</u>	<u>4.136</u>
MAC	<u>354.238</u>	<u>10.627</u>
Fus. Sta. of .25 MAC	<u>1164.227</u>	<u>35.077</u>
W.P. of .25 MAC	<u>292.0</u>	<u>8.760</u>
B.L. of .25 MAC	<u>239.678</u>	<u>7.190</u>
Airfoil Section (Rockwell Mod NASA)		
XXXX-64		
Root $\frac{b}{2}$ =	<u>0.113</u>	<u>0.113</u>
Tip $\frac{b}{2}$ =	<u>0.12</u>	<u>0.12</u>
Data for (1) of (2) Sides		
Leading Edge Cuff		
Planform Area Ft ²	<u>79.13389</u>	<u>0.0712</u>
Leading Edge Intersects Fus M. L. @ Sta	<u>505.0</u>	<u>15.150</u>
Leading Edge Intersects Wing @ Sta	<u>1084.5</u>	<u>32.535</u>



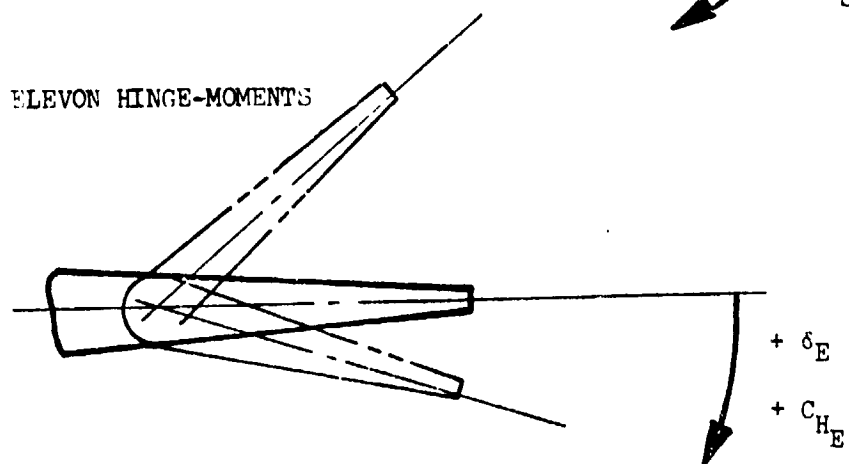
- Notes:**
1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrow
 2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

a. Body and stability axes
Figure 1. - Axis systems.

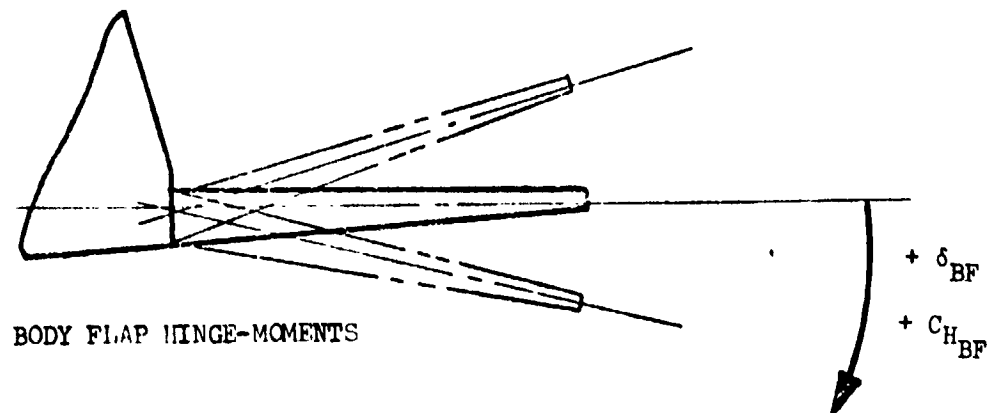
RUDDER AND SPEEDBRAKE
HINGE-MOMENTS



ELEVON HINGE-MOMENTS

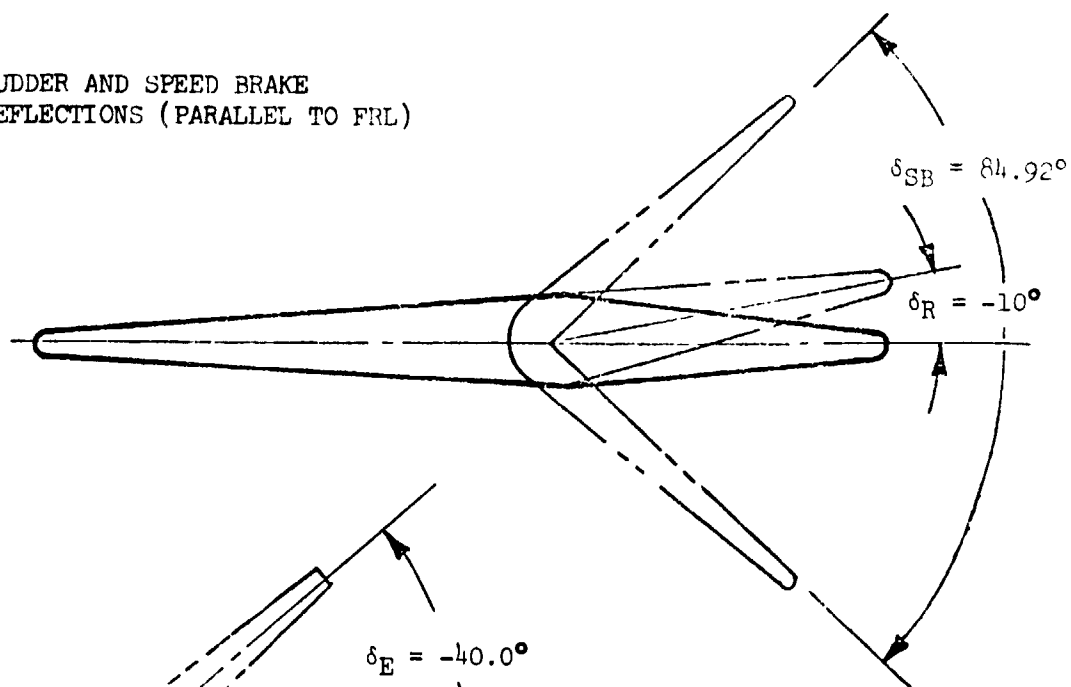


BODY FLAP HINGE-MOMENTS

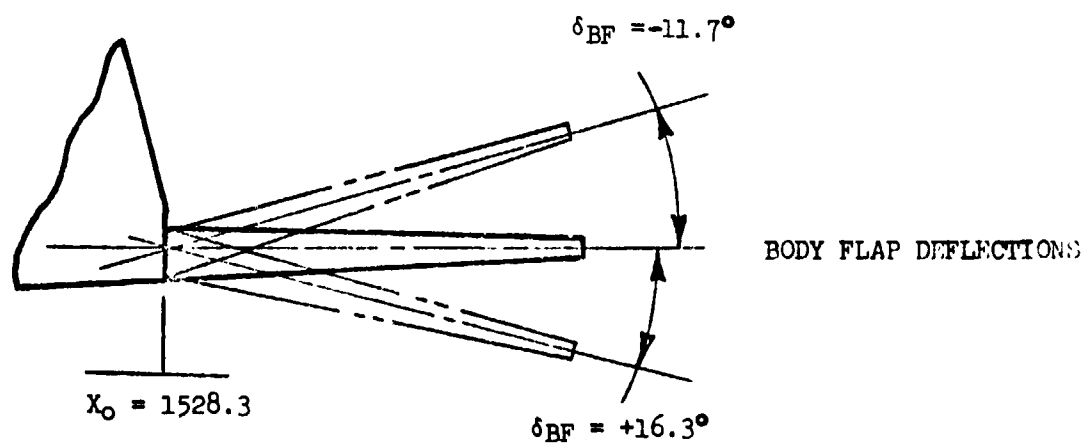
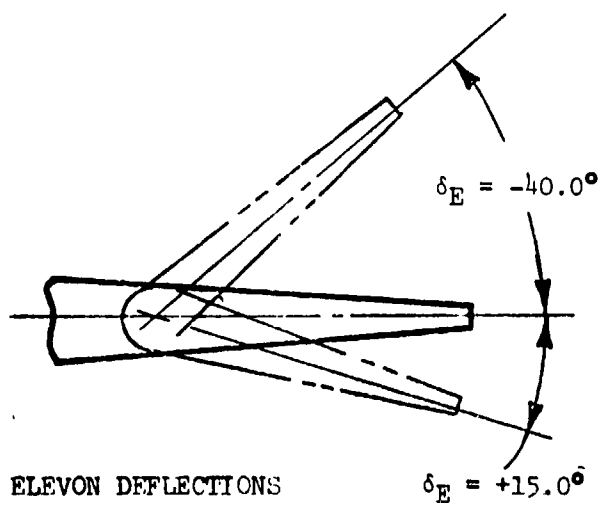


b. Definition of Hinge-Moment Directions
Figure 1. - Continued

RUDDER AND SPEED BRAKE
DEFLECTIONS (PARALLEL TO FRL)



ELEVON DEFLECTIONS



c. Definition of Angular Measurements

Figure 1. - Concluded.

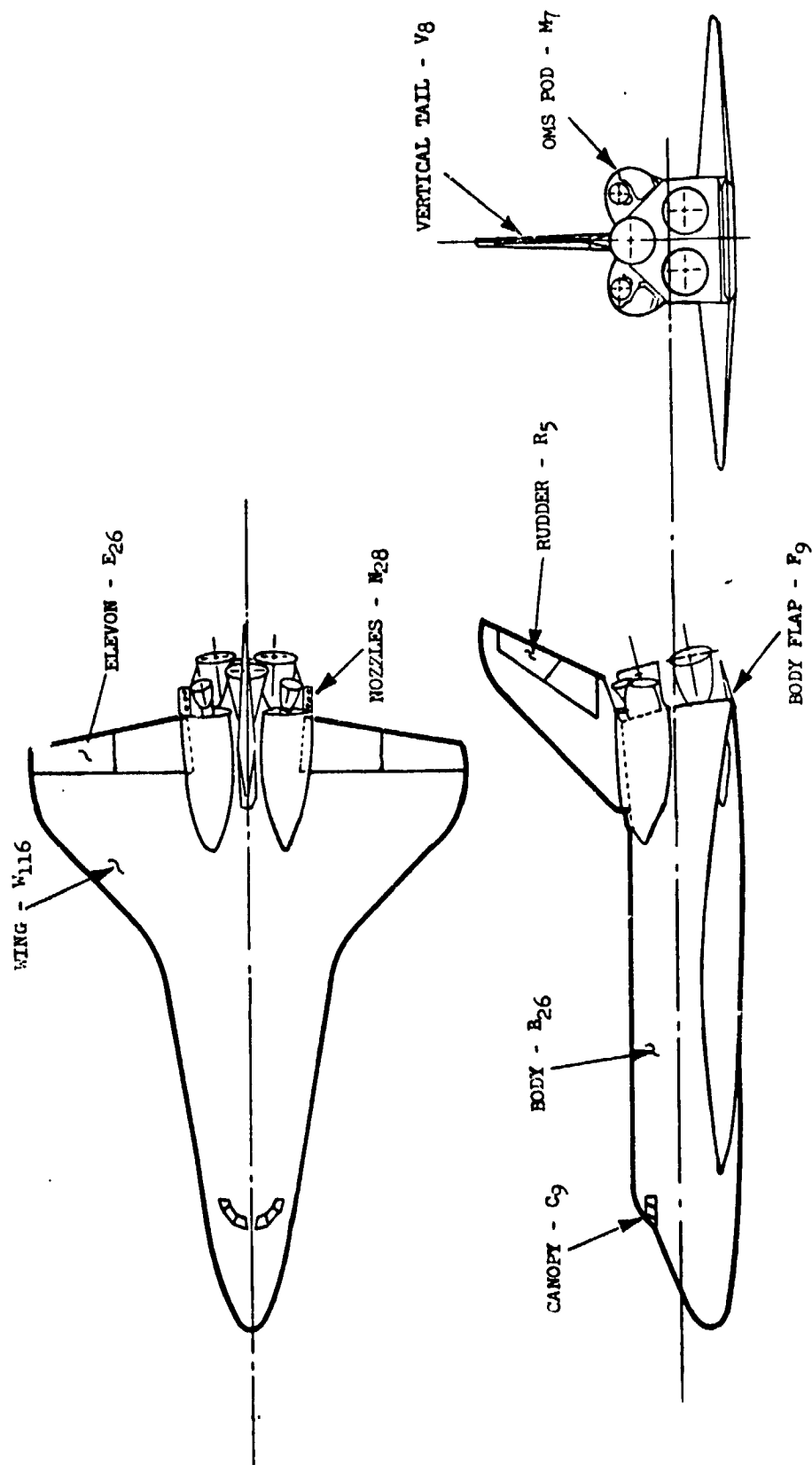


Figure 2. - Model sketches.
a. Configuration 140 A/B

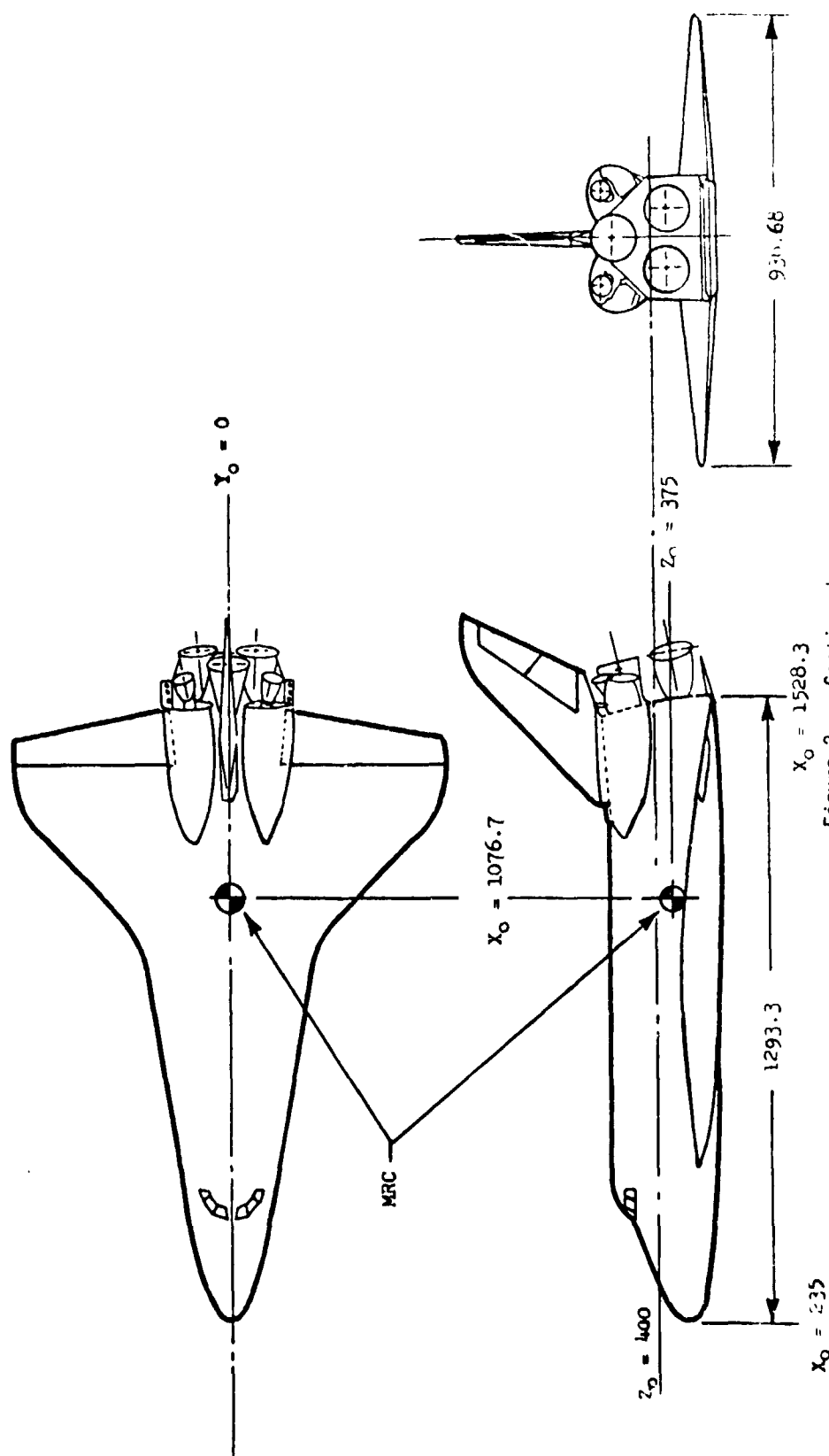


Figure 2. - Continued.

b. Dimensional Data

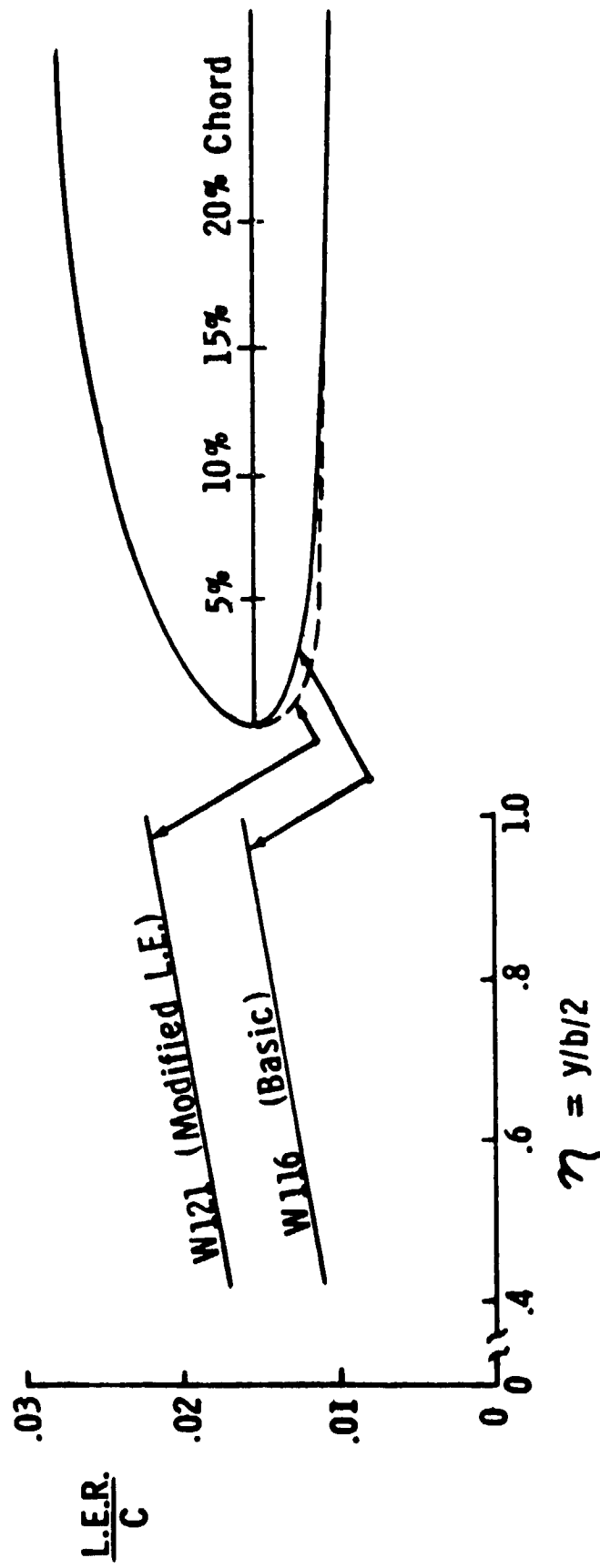
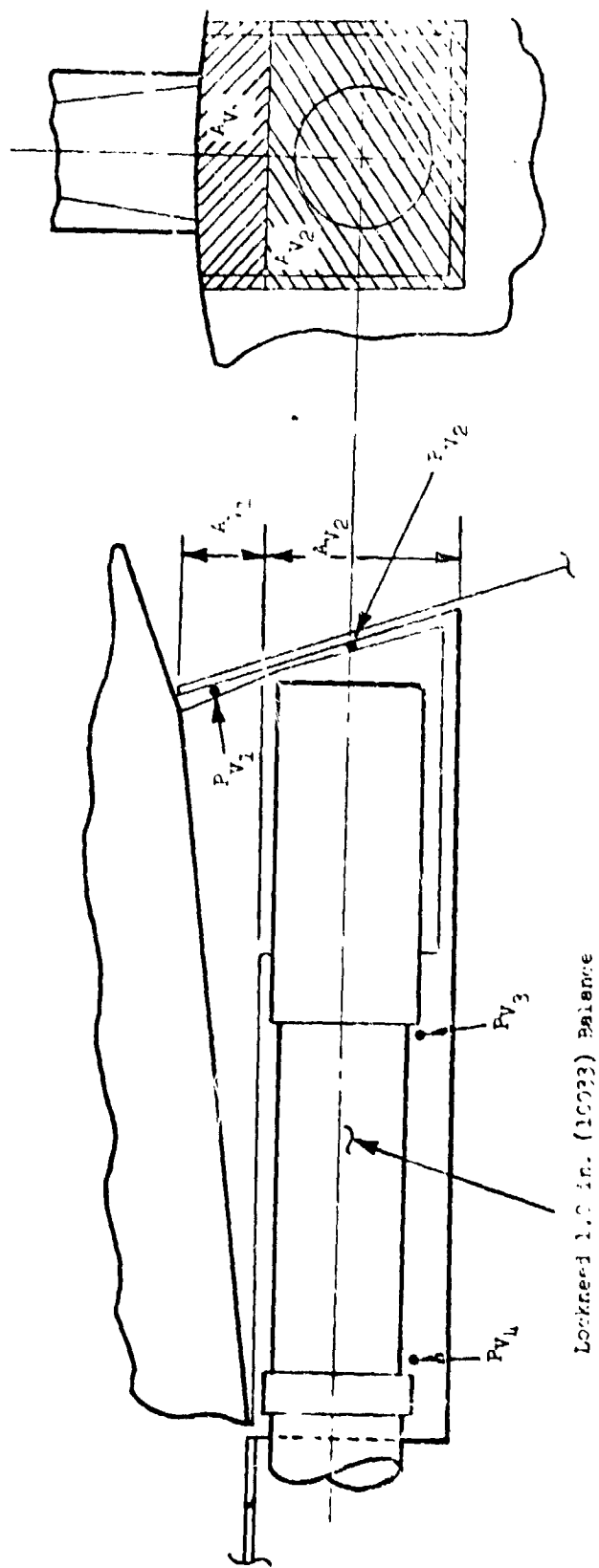
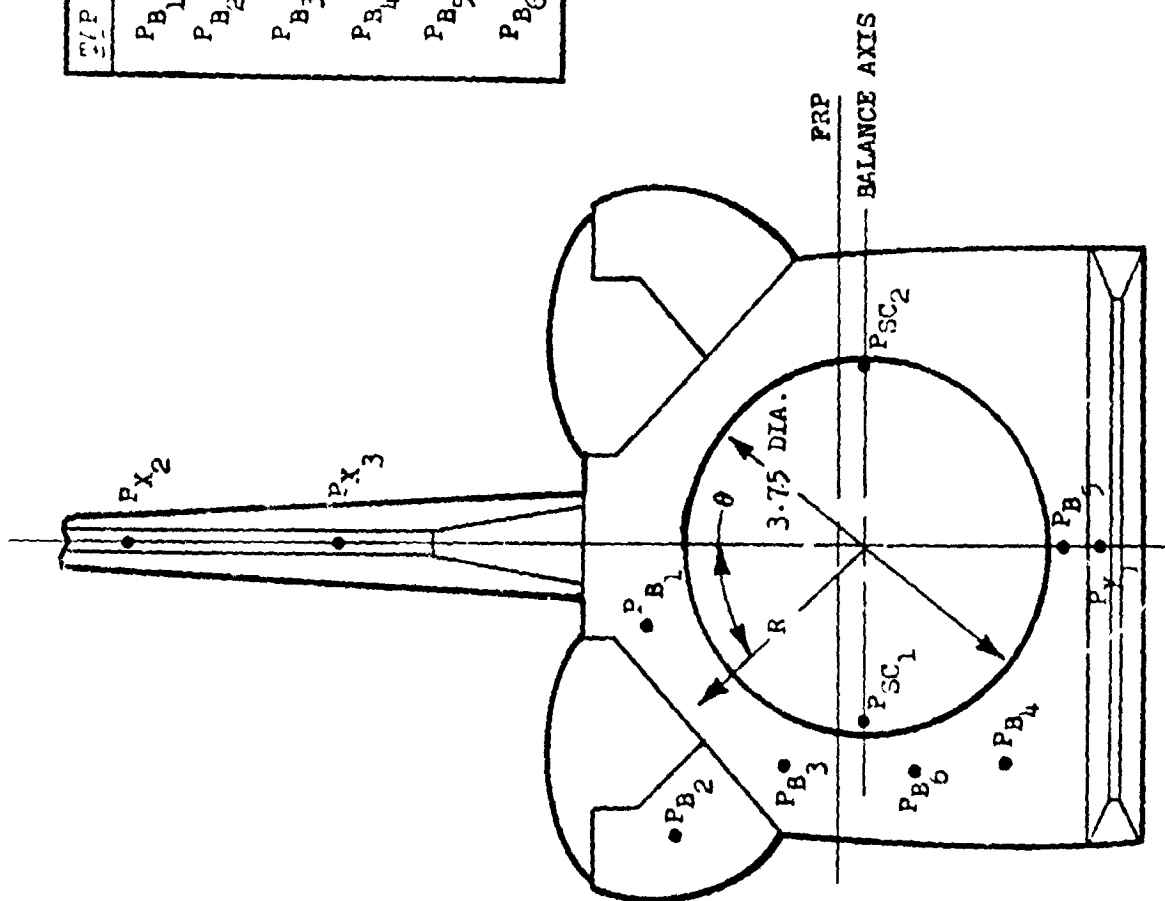


Figure 2. - Concluded.
c. Wing Leading-Edge Modifications



a. Vertical Balance Pressure Orifice Locations

Figure 3. - Pressure instrumentation.



TYPE	θ	R
P_{B1}	23°	2.65
P_{B2}	57°	CENTROID
P_{B3}	70°	2.60
P_{B4}	125°	3.30
P_{B5}	180°	2.30
P_{B6}	99°	2.85

b. Basic Pressure Orifice Locations
Figure 3. - Concluded.

DATA FIGURES

ARC 97-747 0A53B B C M F W1 V NOM. RN/L (TEK011)

SYMBOL	MACH	BETA	PARAMETRIC VALUES	REFERENCE INFORMATION
○	1.600	AILRON	.000 ELEVON	SREF 2.4210
□	2.002	SPEEDK	.000 BOFLAP	LREF 14.2440
		ELEV-L	55.000 RUDDER	BREF 28.1004
			.000 ELEV-R	XMRP 32.3010
			.000	YMRP .0000
			.000	ZMRP 11.2500
			.000	SCALE .0000

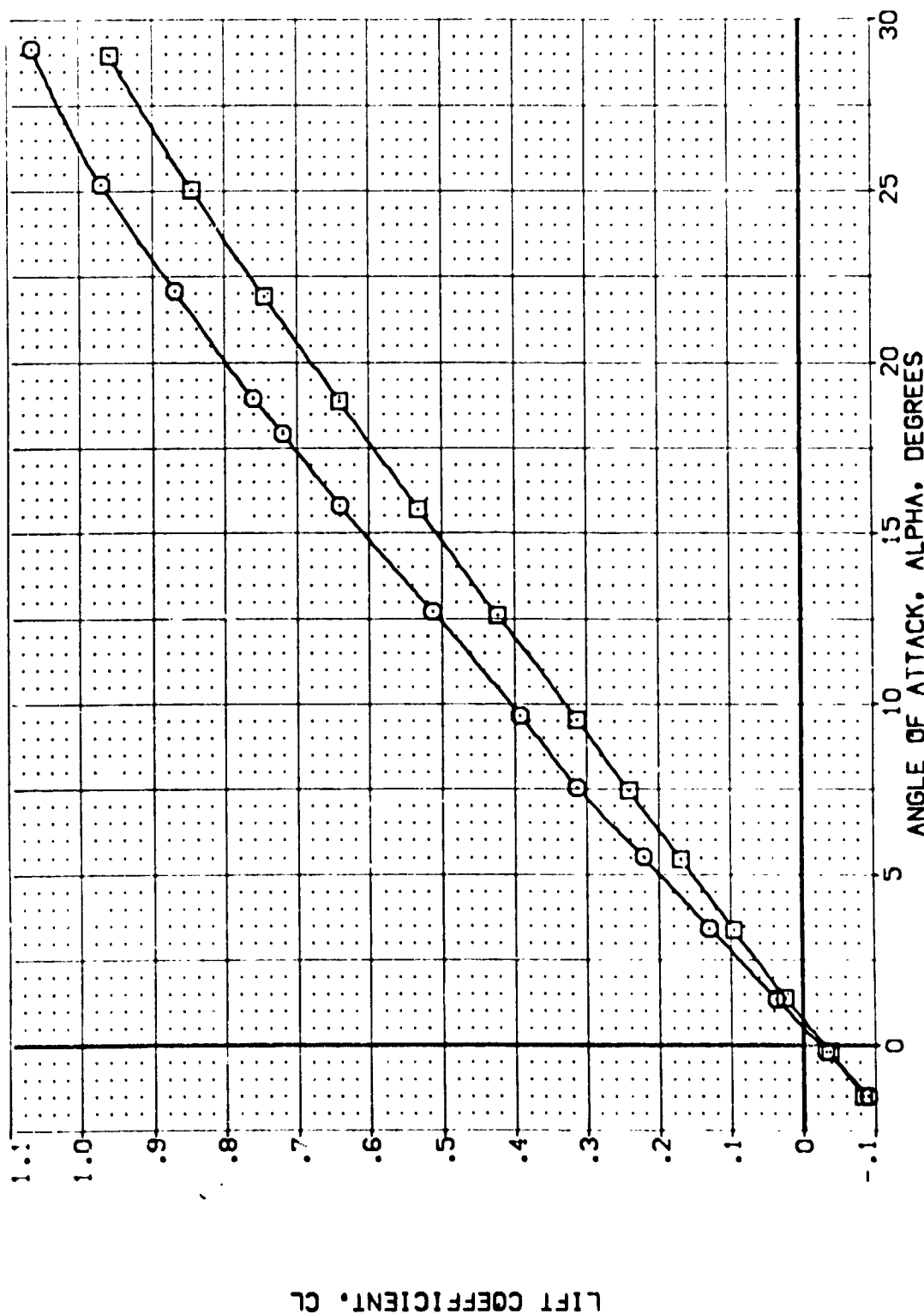


FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE

SYMBOL
○ □

MACH
1.600
2.002

BETA
AILRON
SPOBRK
ELEV-L

PARAMETRIC VALUES
.000 ELEVON
.000 BOFLAP
55.000 RUDDER
.000 ELEV-R

REFERENCE INFORMATION
SREF 2.4210 SQ.FT.
LREF 14.2440 IN.
XREF 23.1004 IN.
XMRP 32.3010 IN.
YMRP 0.0000 IN.
ZMRP 11.2500 IN.
SCALE .0330

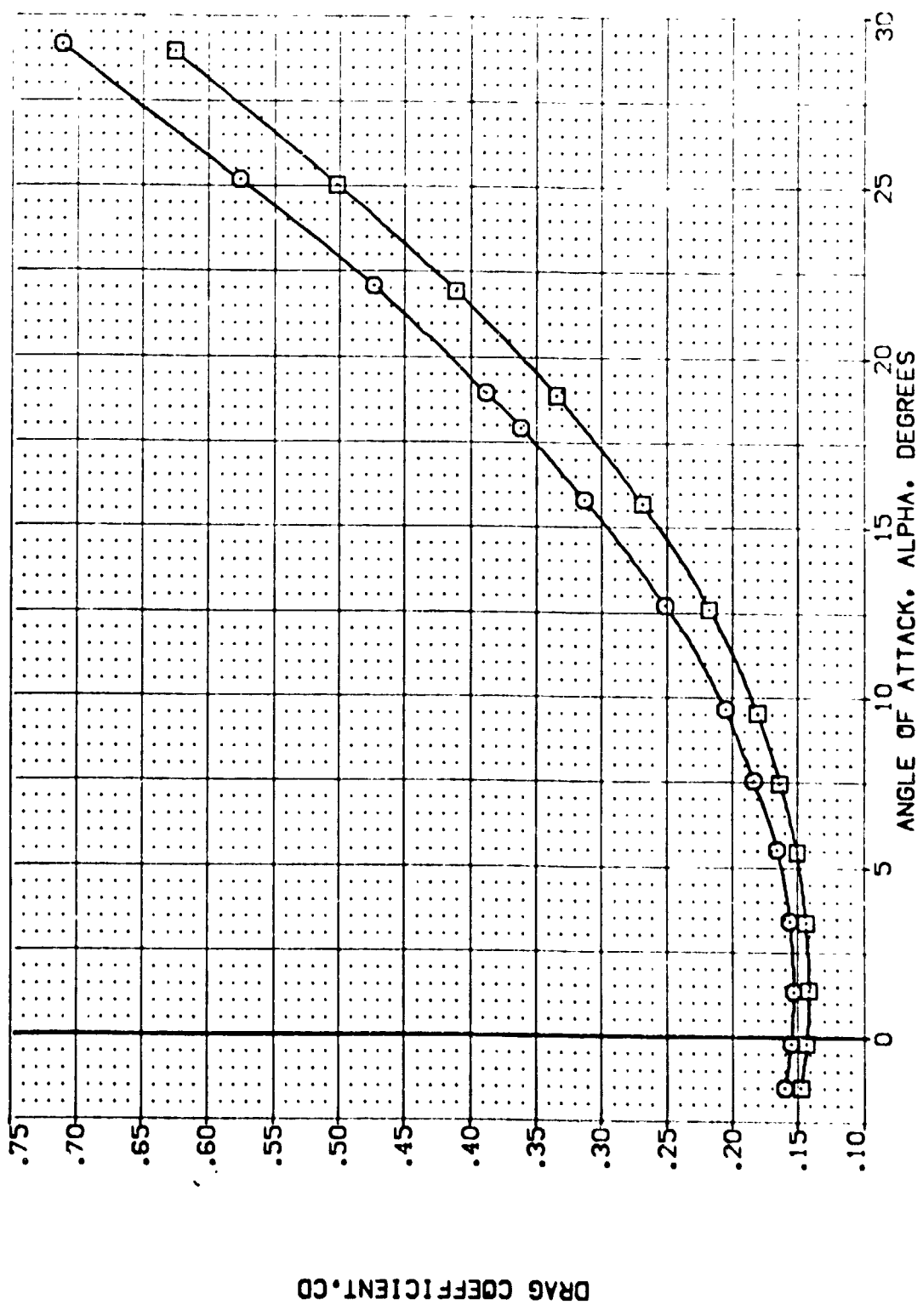


FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE

ARC 97-747 0A53B B C M F W I V NOM. RN/L (TEKO11)

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION			
		BETA	ELEVON	ELEVON		SREF	IN.	IN.	IN.
□	1.600	.000	.000	.000	.000	2.4210	14.2440	20.1004	32.9310
○	2.002	.000	.000	.000	.000	14.2440	20.1004	32.9310	11.2500
		SPDCK	ELEV-L	RUDER	ELEV-R	SCALE			
		56.000	.000	.000	.000	11.2500			
						SCALE			

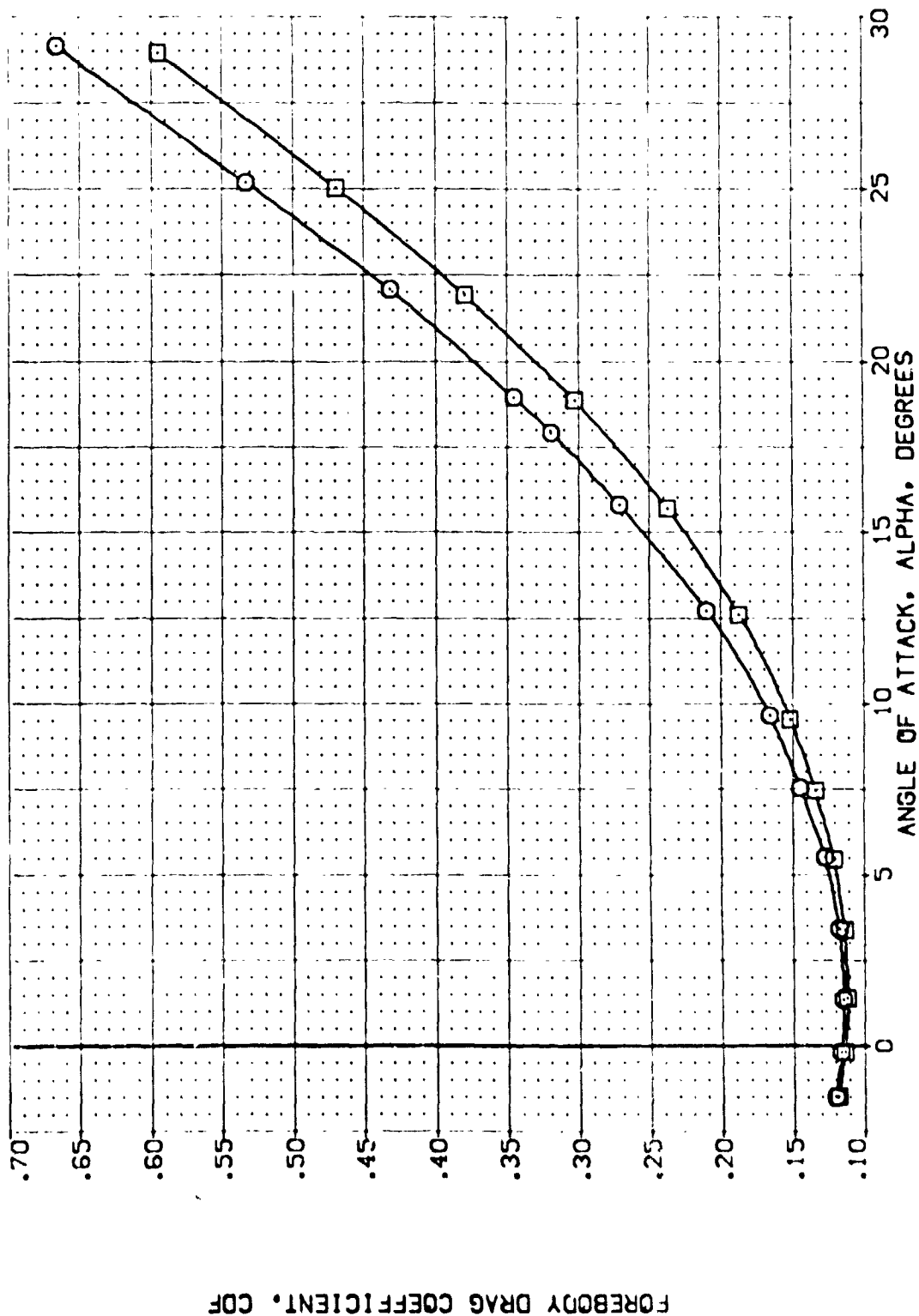


FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE

(TEK011)

ARC 97-747 0A503 B C M F W1 V NOM. RN/L

SYMBOL
○ □

MACH
1.600
2.002

BETA
AILRON
SPOBRK
ELEV-L

PARAMETRIC VALUES
.000 ELEVON
.000 BOFLAP
55.000 RUDDER
.000 ELEV-R

.000
-11.700
.000
.000

REFERENCE INFORMATION
SREF 2.4210 SQ.FT.
LREF 14.2440 IN.
BREF 28.1000 IN.
XMRP 32.3010 IN.
YMRP .0000 IN.
ZMRP 11.2500 IN.
SCALE .0030

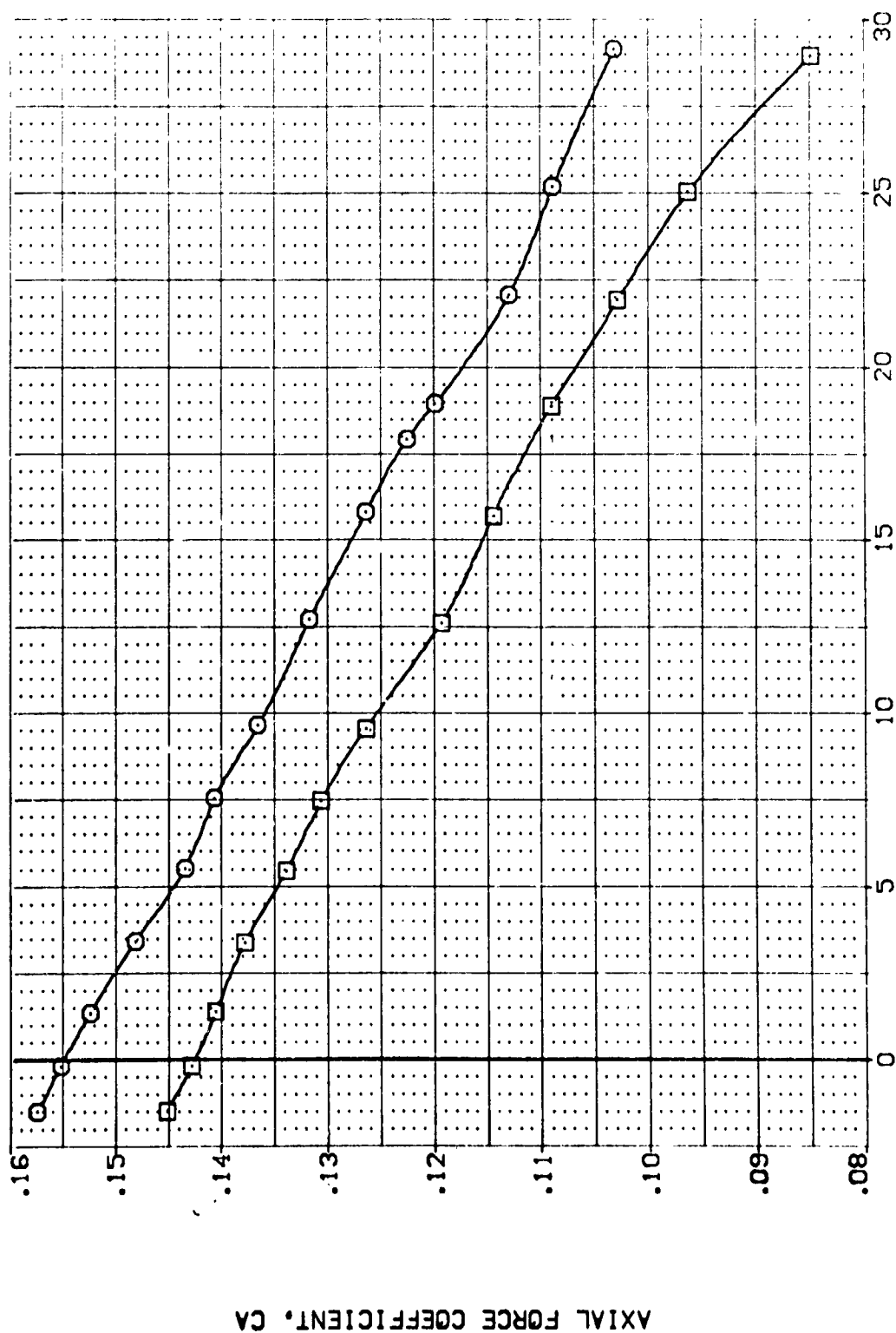


FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE

ARC 97-747 OA538 B C M F W I V NOM. RN/L

(TEK011)

SYMBOL
○ □

MACH
1.500
2.002

PARAMETRIC VALUES
BETA .000 ELEVON .000
AILRON .000 BOFLAP -11.700
SPOBRK 55.000 RUDDER .000
ELEV-L .000 ELEV-R .000

REFERENCE INFORMATION
SREF 2.4210 SQ.FT.
LREF 14.2440 IN.
BREF 28.1004 IN.
XMAP 32.5010 IN.
YMAP .0000 IN.
ZMAP 11.2500 IN.
SCALE .0300

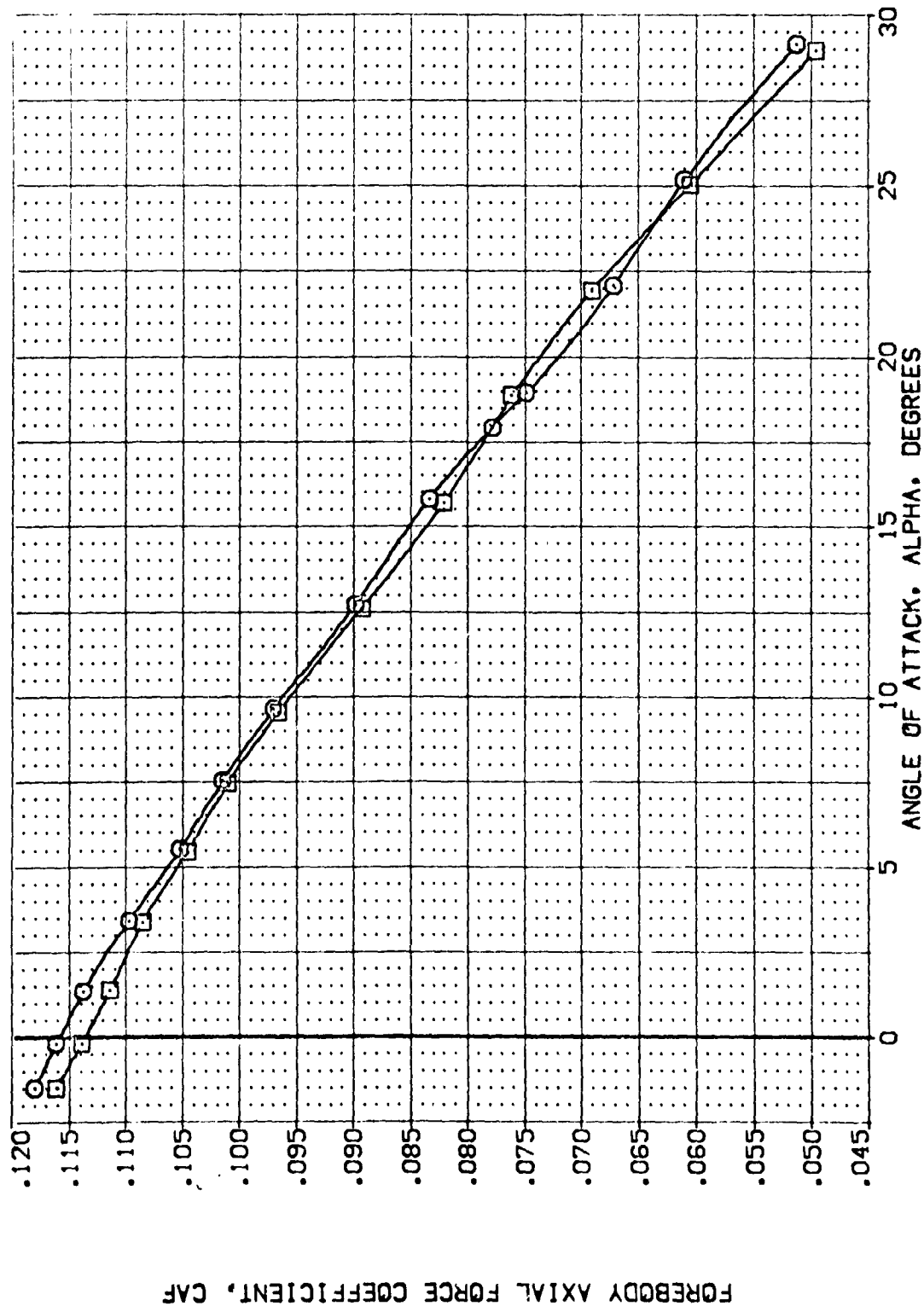


FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE

SYMBOL
○ □

MACH
1.600
2.002

PARAMETRIC VALUES
BETA
AILLON
SPOILER
ELEV-L
.000
.000
55.000
.000
ELEV-R
.000

ELEVON
BOFLAP
RUDDER
ELEV-R
.000
-11.700
.000
.000

REFERENCE INFORMATION
SREF 2.4210 SQ.FT.
LREF 14.2440 IN.
BREF 20.1004 IN.
XMRP 32.3010 IN.
YMRP .0000 IN.
ZMRP 11.2500 IN.
SCALE .0000

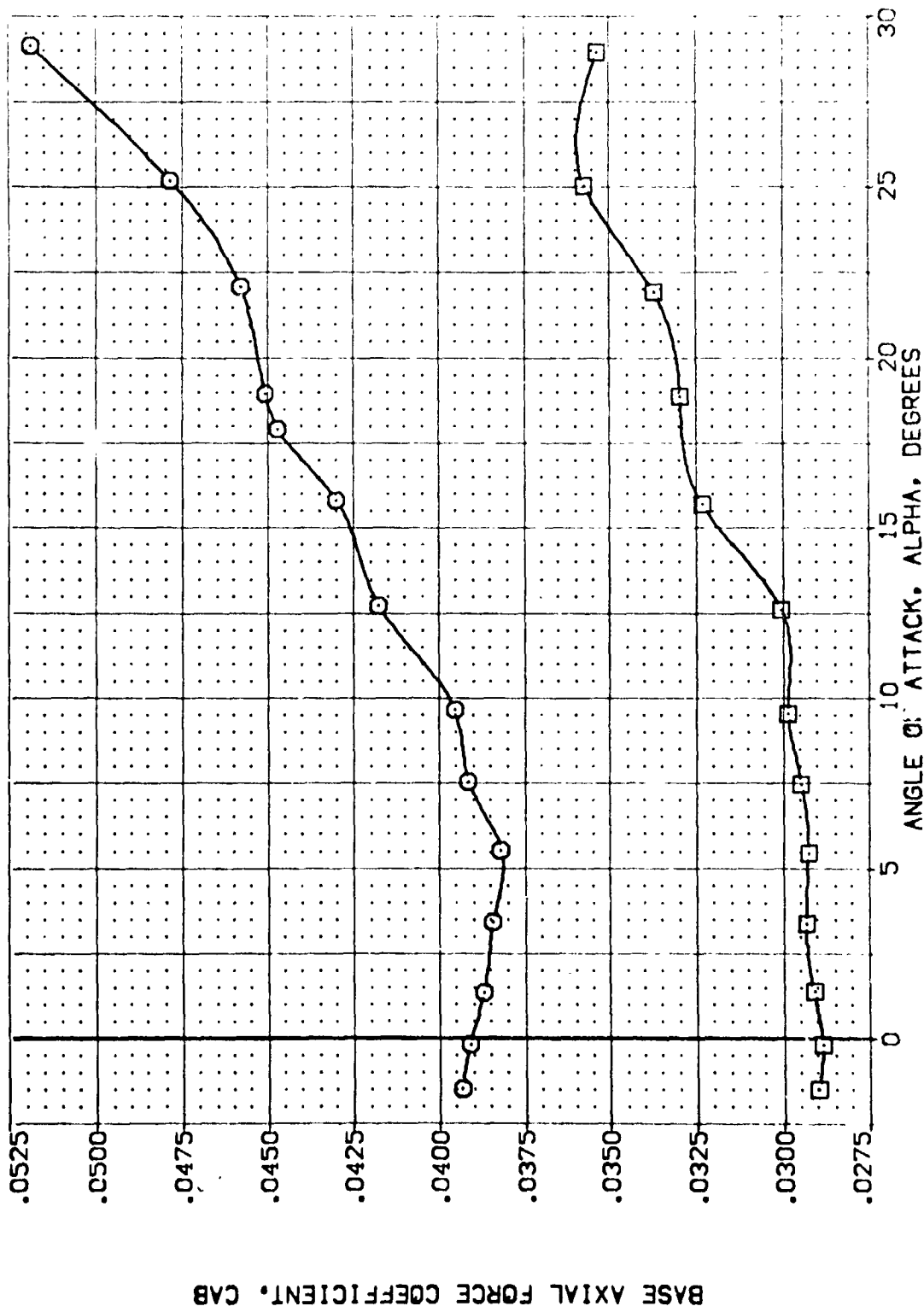


FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE

ARC 97-747 0A538 B C M F W1 V NOM. RN/L

(TEK011)

SYMBOL

○ □

MACH

1.600
2.002

BETA

AILRON

PARAMETRIC VALUES

.000 ELEVON
.000 BOFLAP
55.000 RUDDER
.000 ELEV-R

.000

-11.700
.000
.000

REFERENCE INFORMATION

SREF 2.4210 SQ.FT.
LREF 14.7440 IN.
BREF 28.1004 IN.
XREF 32.5310 IN.
YREF .0000 IN.
ZREF 11.2500 IN.
SCALE .0300

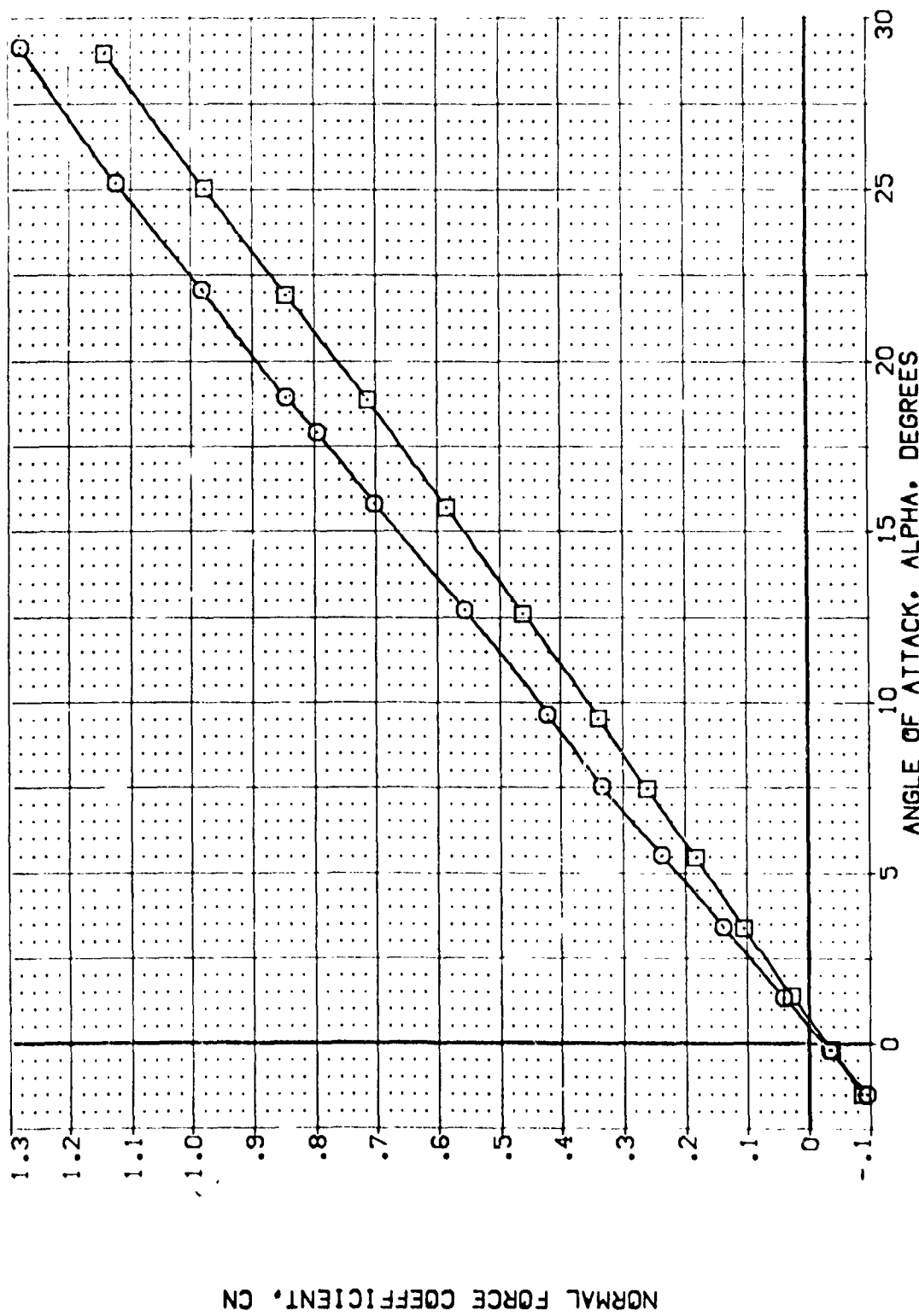


FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE

ARC 97-747 0A53B B C M F W1 V NOM. RN/L (TEK011)

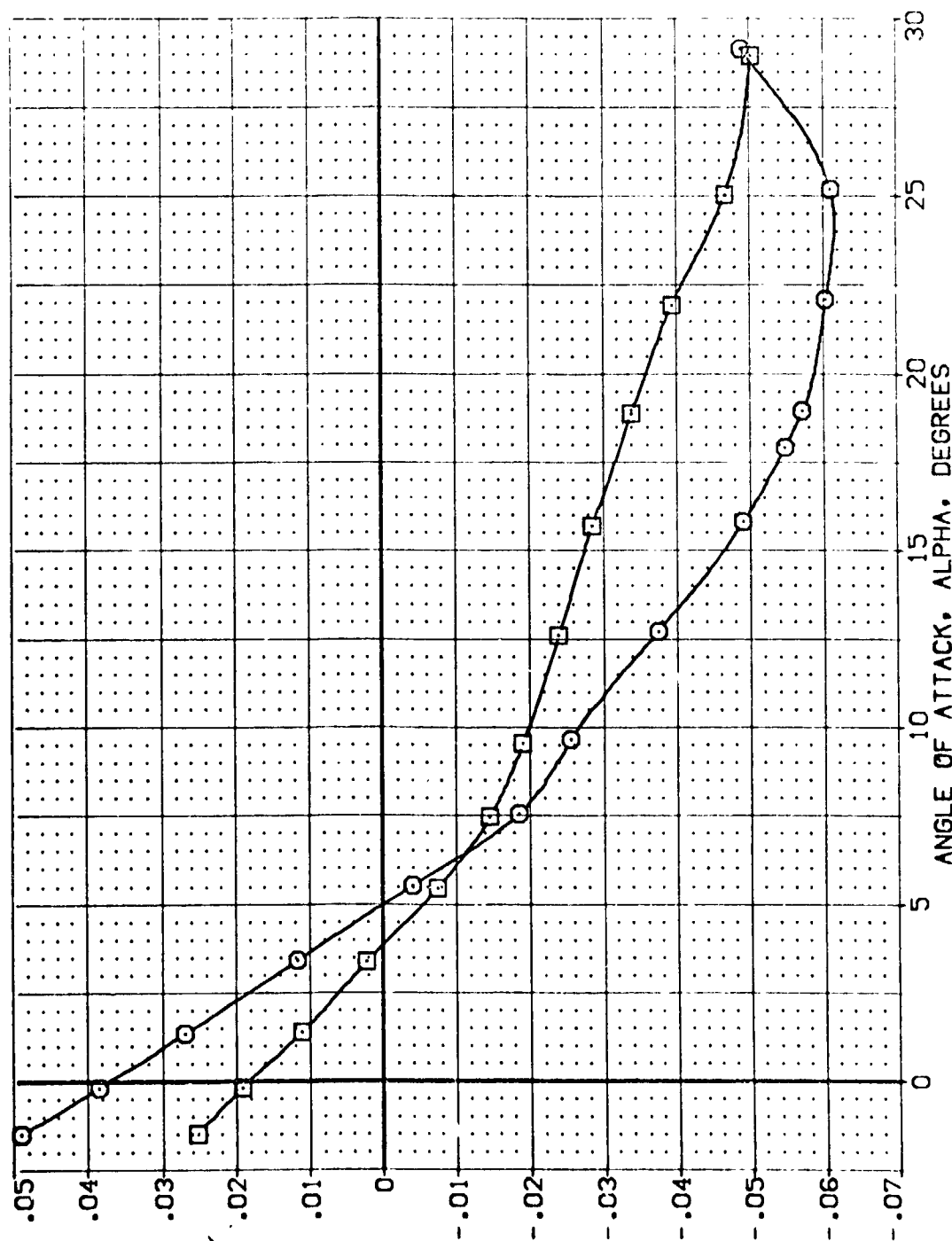
SYMBOL
○ □

MACH
1.600
2.002

PARAMETRIC VALUES
BETA
AILRON
SPDRK
ELEV-L

ELEVON
BOFLAP
RUDDER
ELEV-R

REFERENCE INFORMATION
SREF 2.4210 SQ.FT.
LREF 14.2440 IN.
BREF 28.1004 IN.
XGRP 32.3010 IN.
YGRP 05.00 IN.
ZGRP 11.2500 IN.
SCALE .0500



PITCHING MOMENT COEFFICIENT (FWD C.G.), CLMFW

ANGLE OF ATTACK, ALPHA, DEGREES

FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE

ARC 97-747 0A538 B C M F W1 V NOM. RN/L

(TEK011)

SYMBOL
○ □

MACH
1.600
2.002

BETA
A1LRON
SPDRK
ELEV-L

PARAMETRIC VALUES
.000
.000
55.000
.000

ELEVON
EOLAP
RUDDER
ELEV-R

.000
-11.700
.000
.000

REFERENCE INFORMATION
REF 2.4210 50.FT.
LREF 14.2440 IN.
BREF 20.1004 IN.
XMRP 32.3010 IN.
YMRP .0000 IN.
ZMRP 11.2500 IN.
SCALE .0300

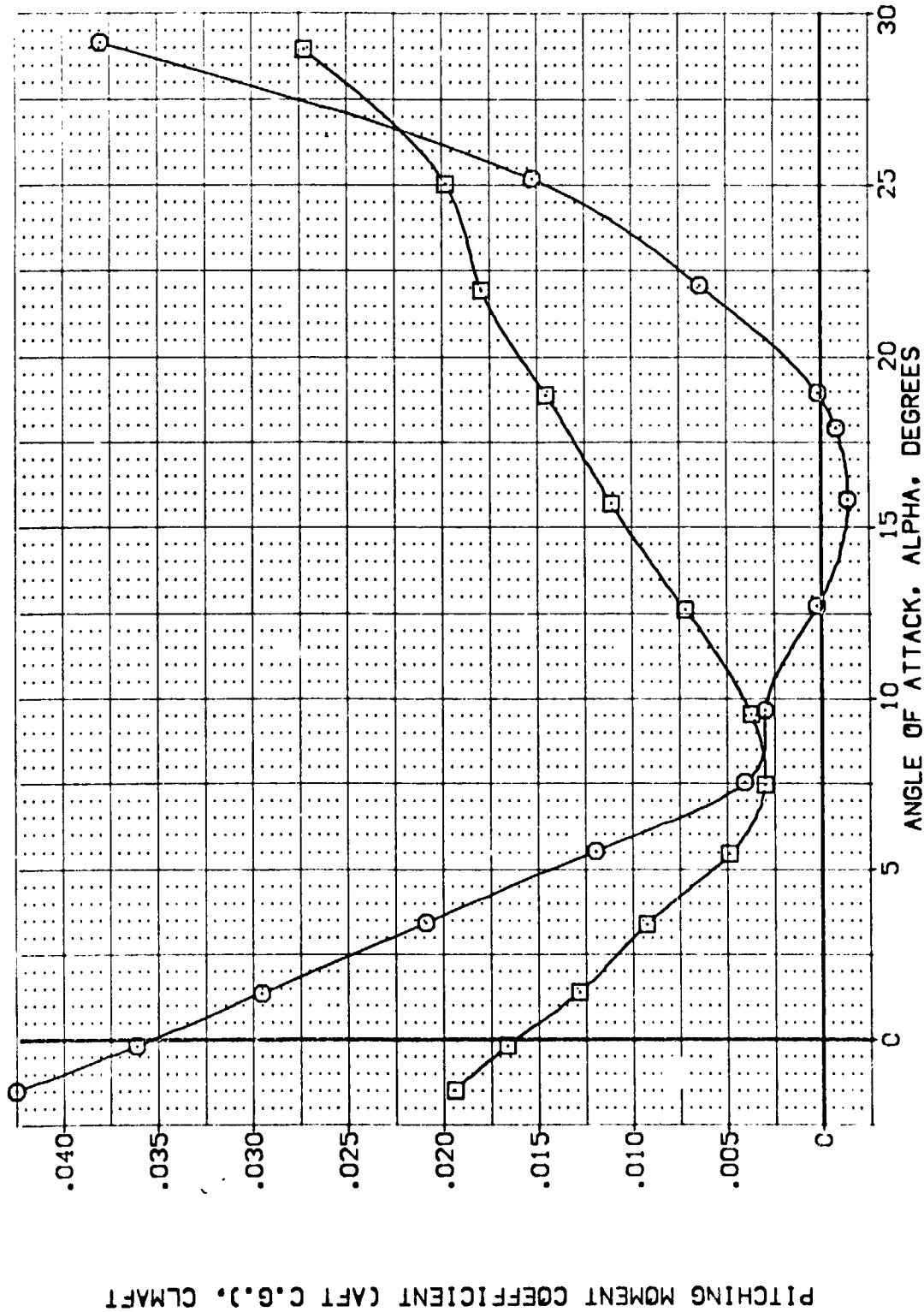


FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE

ARC 97-747 0A538 B C M F W1 V NOM. RN/L (TEK011)

SYMBOL
○ □

MACH
1.500
2.002

PARAMETRIC VALUES
BETA .000 ELEVON .000
AILRON .000 BDFLAP -11.700
SPOBRK 55.000 RUDDER .000
ELEV-L .000 ELEV-R .000

REFERENCE INFORMATION
SREF 2.4210 SQ.FT.
LREF 14.2440 IN.
BREF 28.1004 IN.
XMP 32.5010 IN.
YMP .0000 IN.
ZMP 11.2500 IN.
SCALE .0300

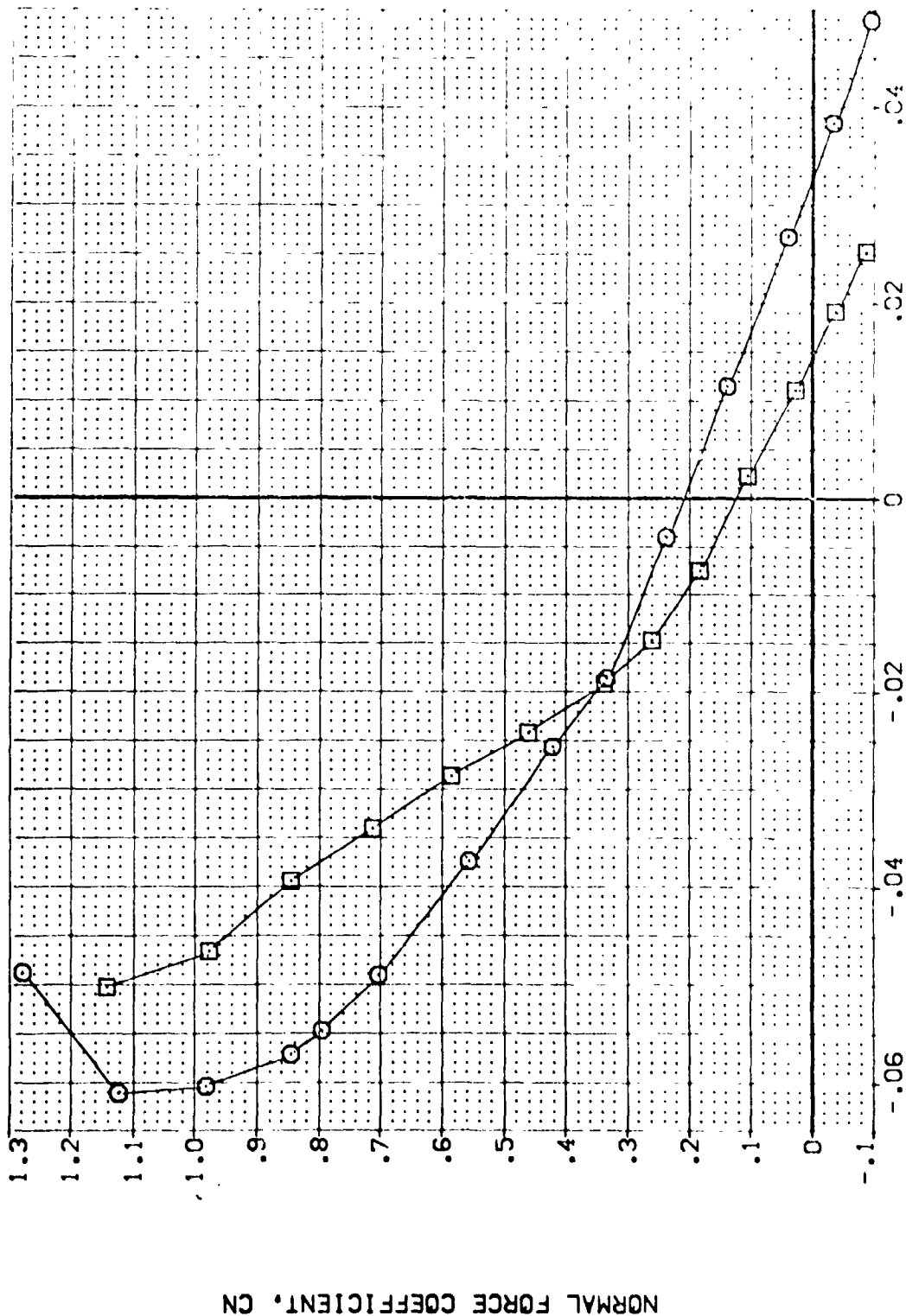


FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE

ARC 97-747 0A53B B C M F W1 V NOM. RN/L (TEK011)

SYMBOL

○ □

MACH

1.600
2.002

BETA

AILRON
SPDRK
ELEV-L

PARAMETRIC VALUES

.000 ELEVON
.000 BOFLAP
56.000 RUDDER
.000 ELEV-R

REFERENCE INFORMATION

SREF 2.4210 SQ.FT.
LREF 14.2440 IN.
BREF 28.1004 IN.
XMRP 32.5010 IN.
YMRP .0000 IN.
ZMRP 11.2500 IN.
SCALE .0300

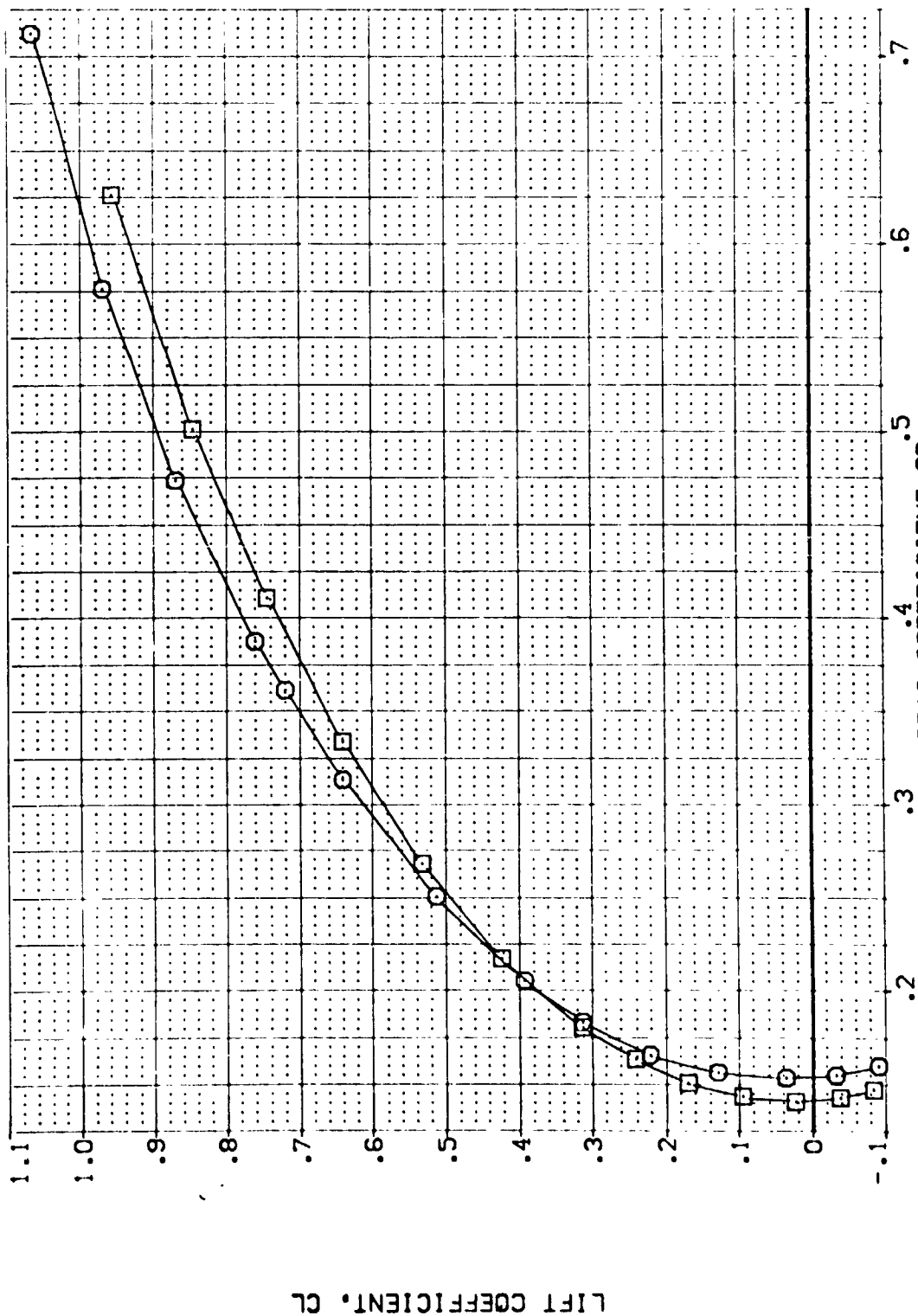


FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE

ARC 97-747 0A538 B C M F W1 V NOM. RN/L (TEK011)

SYMBOL
○ □

MACH
1.600
2.002

BETA
AIRLON
SPDRBK
ELEV-L

PARAMETRIC VALUES
.000 ELEVON
.000 EDFLAP
55.000 RUDDER
.000 ELEV-R

REFERENCE INFORMATION:
SREF 2.4210 SQ.FT.
LREF 14.2443
BREF 28.1004
XMRP 32.3010
YMRP .0000
ZMRP 11.2600
SCALE .0030

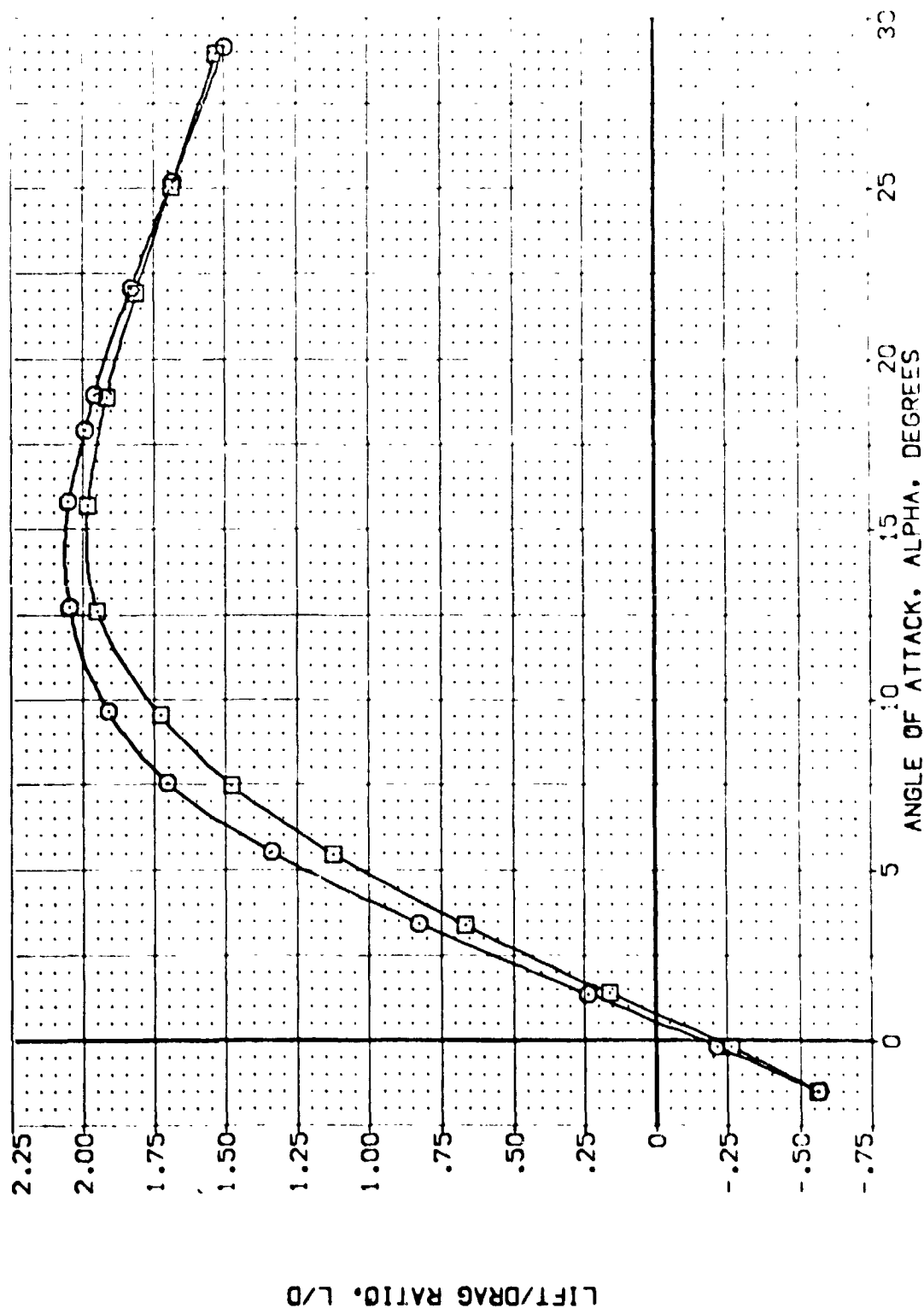


FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE

ARC 97-747 CA538 B C M F W1 V NOM. RN/L

(AEK011)

SYMBOL



MACH

1.600
2.002

BETA

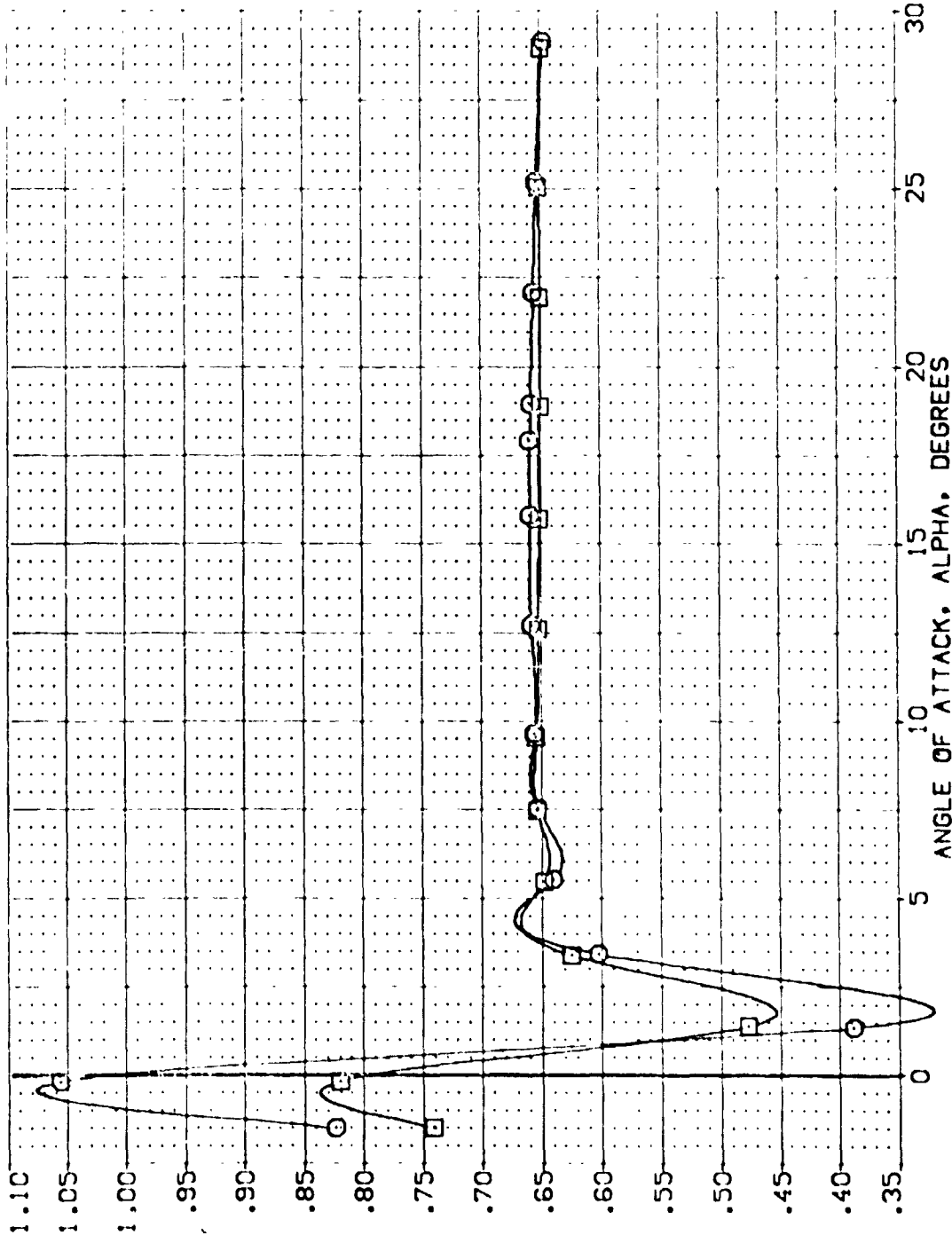
ATLON
SPDCK
ELEV-L

PARAMETRIC VALUES

.000 ELEVON
.000 BOFLAP
-11.700
55.000 RUDDER
.000 ELEV-R
.000

REFERENCE INFORMATION

SREF 2.4210 SQ.FT.
LREF 14.2440 IN.
BREF 28.1004 IN.
XREF 32.5010 IN.
YREF .0000 IN.
ZREF 11.2500 IN.
SCALE .0300



LONGITUDINAL CENTER OF PRESSURE/BODY LENGTH, XCP/L

ANGLE OF ATTACK, ALPHA, DEGREES

FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RV/L	AIR/ON	BO/LAP	SPO/BRK	REFERENCE INFORMATION
[TEMP17]	ARC 97-747 OAS33 B C M F V1 V	4.000	.000	.000	55.000	SREF 2.4210 SQ.FT.
[TEMP16]	ARC 97-747 OAS33 B C M F V1 V	2.750	.000	.000	55.000	LREF 14.2440
[TEMP15]	ARC 97-747 OAS33 B C M F V1 V	1.120	.000	.000	55.000	BREF 23.1004
						XREF 32.2016
						YREF .0000
						ZREF 11.2500
						SCALE .0000

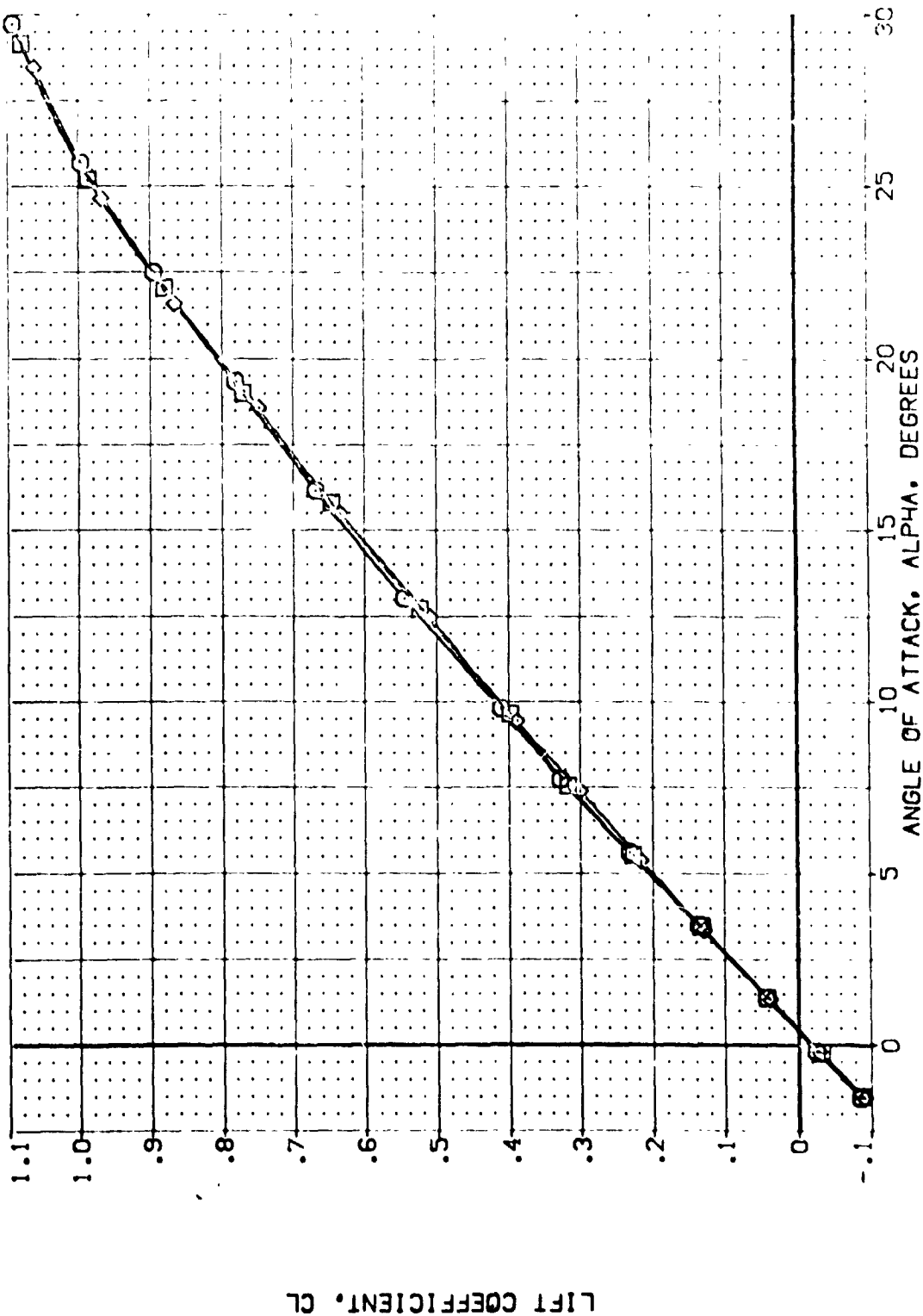


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RN/L	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
{TEMR17}	ARC 97-747 DAS33 B C H F VI V	4.000	.000	.000	55.000	SREF 2.4210 SQ.FT.
{TEMR16}	ARC 97-747 DAS33 B C H F VI V	2.750	.000	.000	55.000	LREF 14.2140 IN.
{TEMR15}	ARC 97-747 DAS33 B C H F VI V	1.120	.000	.000	55.000	BREF 28.1004 IN.
						XMRP 32.0010 IN.
						YMRP .0000 IN.
						ZMRP 11.2500 IN.
						SCALE .0000

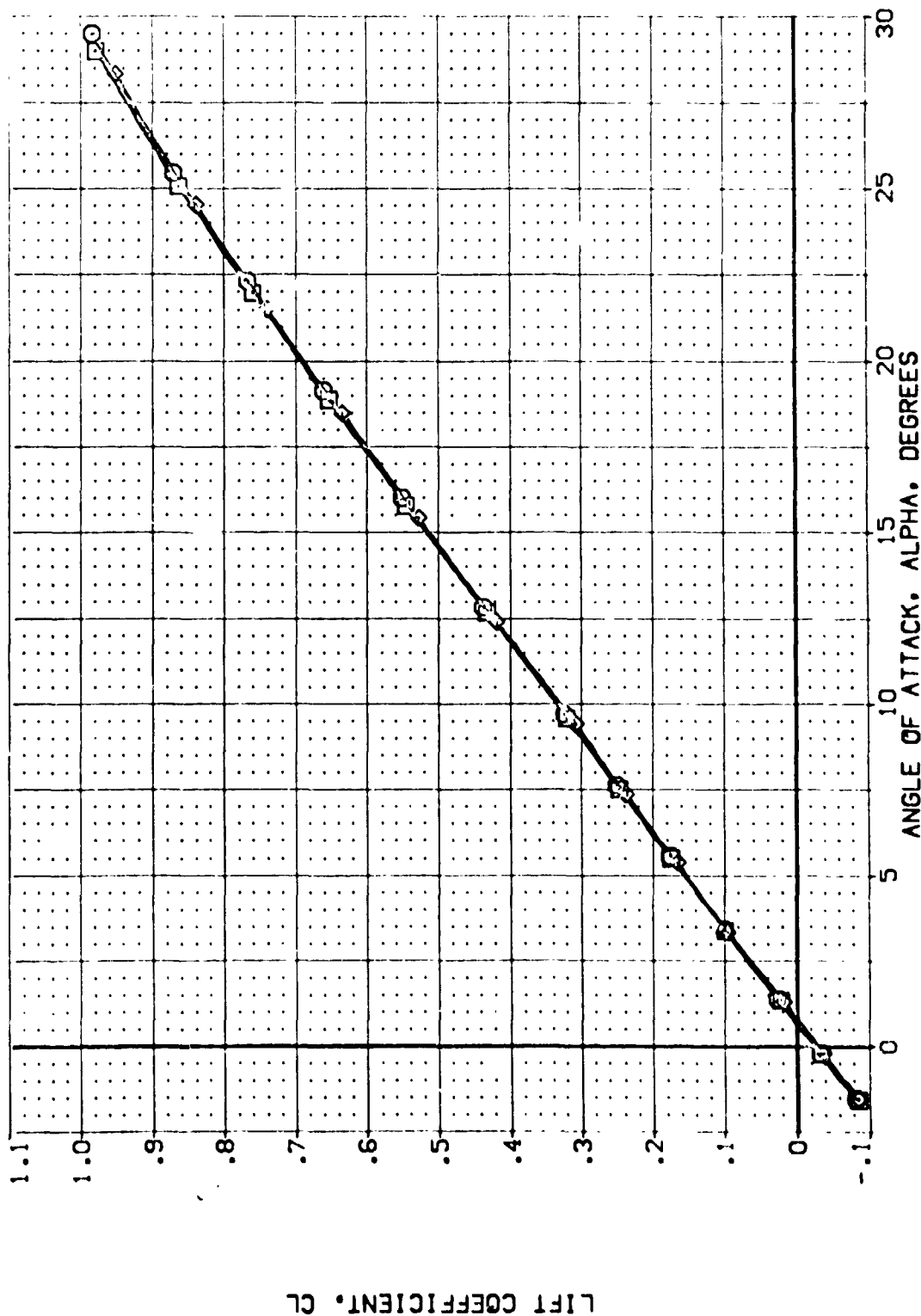


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RVL	AIRLON	BOFLAP	SPDRK	REFERENCE INFORMATION
(TEOR17)	ARC 97-747 BA538 B C M F V1 V	4.000	.000	.000	55.000	SREF 2.4210 50. FT.
(TEOR16)	ARC 97-747 BA538 B C M F V1 V	2.750	.000	.000	55.000	LREF 14.2440 IN.
(TEOR15)	ARC 97-747 BA538 B C M F V1 V	1.120	.000	.000	55.000	BREF 28.1004 IN.
						XMRP 32.3010 IN.
						YMRP .0000 IN.
						ZMRP 11.2500 IN.
						SCALE .0000

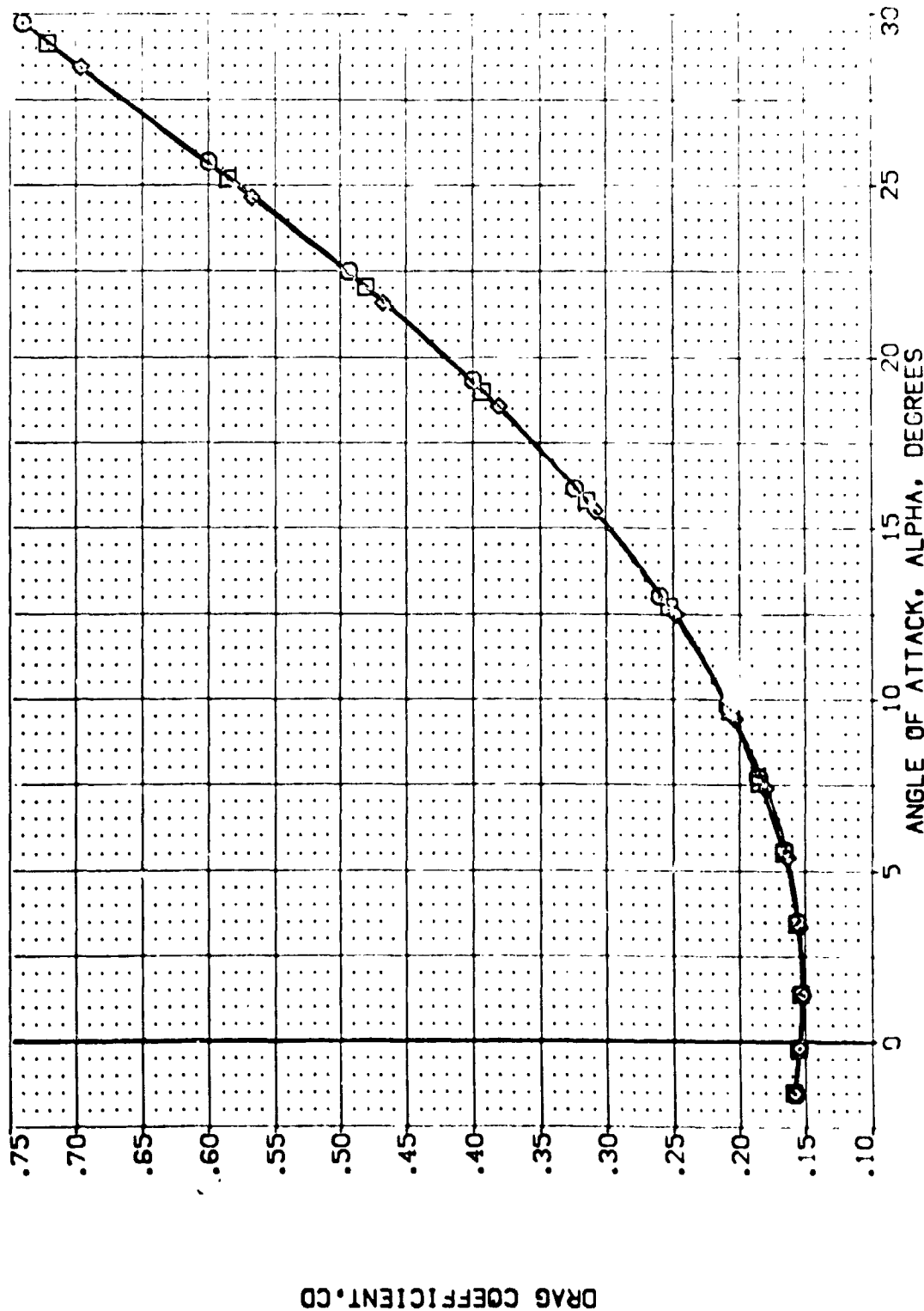


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		REFERENCE INFORMATION	
(-EXP:7)	○	ARC 97-747	CAS33 B C M F V	SREF	2.4210 SC.FT.
(-EXP:6)	○	ARC 97-747	CAS33 B C M F V	LREF	14.2440 IN.
(-EXP:5)	○	ARC 97-747	CAS33 B C M F V	SREF	28.1004 IN.
				XREF	30.2010 IN.
				YREF	0.0000 IN.
				ZREF	11.2500 IN.
				SCALE	.0000

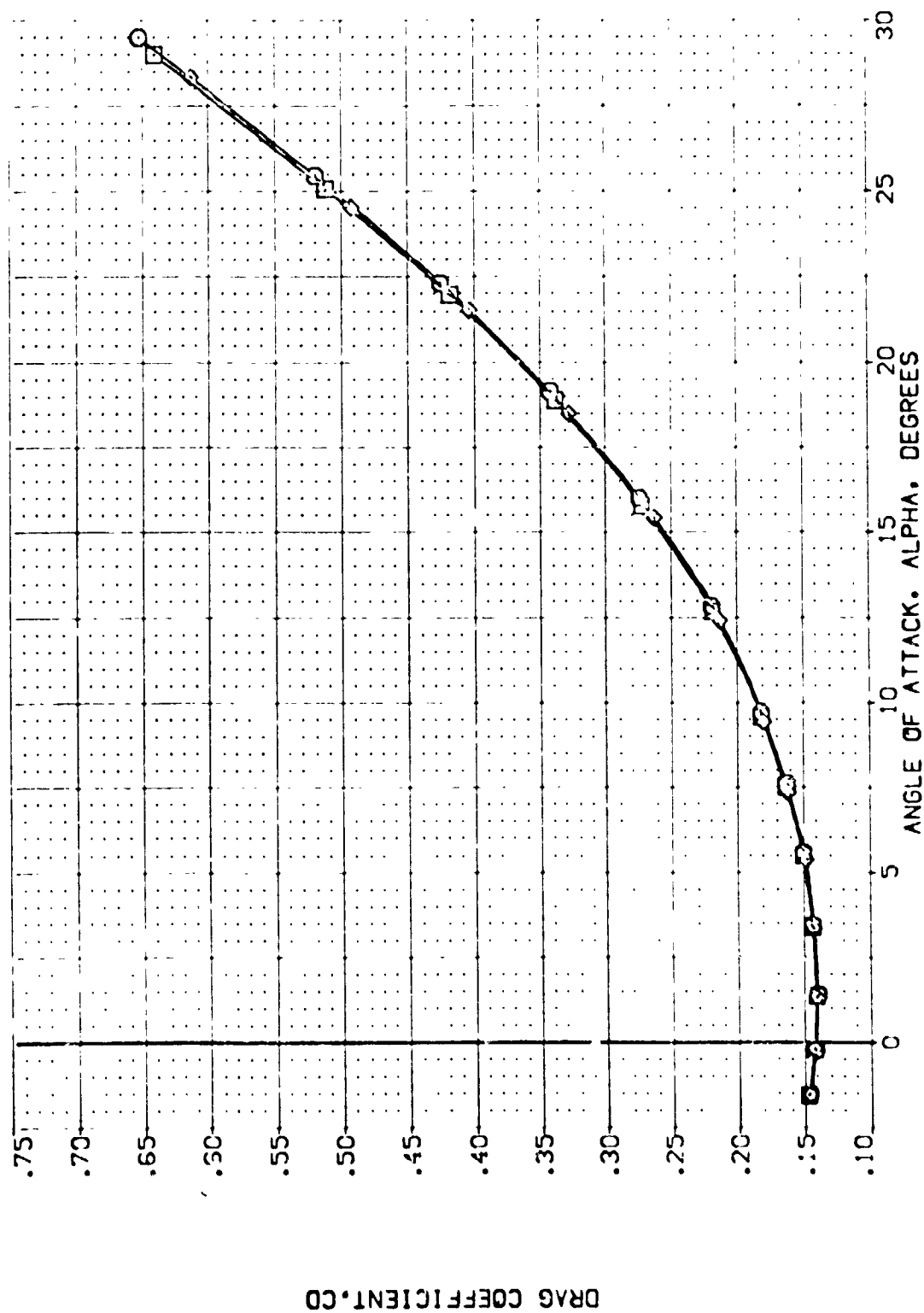


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RVL	AILRON	BDFLAP	SPDBRK	REFERENCE INFORMATION
{TEKR17}	ARC 97-747 OAS38 B C M F VI V	4.000	.000	.000	55.000	SREF 2.4210 SQ.FT.
{TEKR16}	ARC 97-747 OAS38 B C M F VI V	2.750	.000	.000	55.000	LREF 14.2440 IN.
{TEKR15}	ARC 97-747 OAS38 B C M F VI V	1.120	.000	.000	55.000	BREF 28.1034 IN.
						XREF 32.2310 IN.
						YMRP .0000 IN.
						ZMRP .0000 IN.
						SCALE .0000

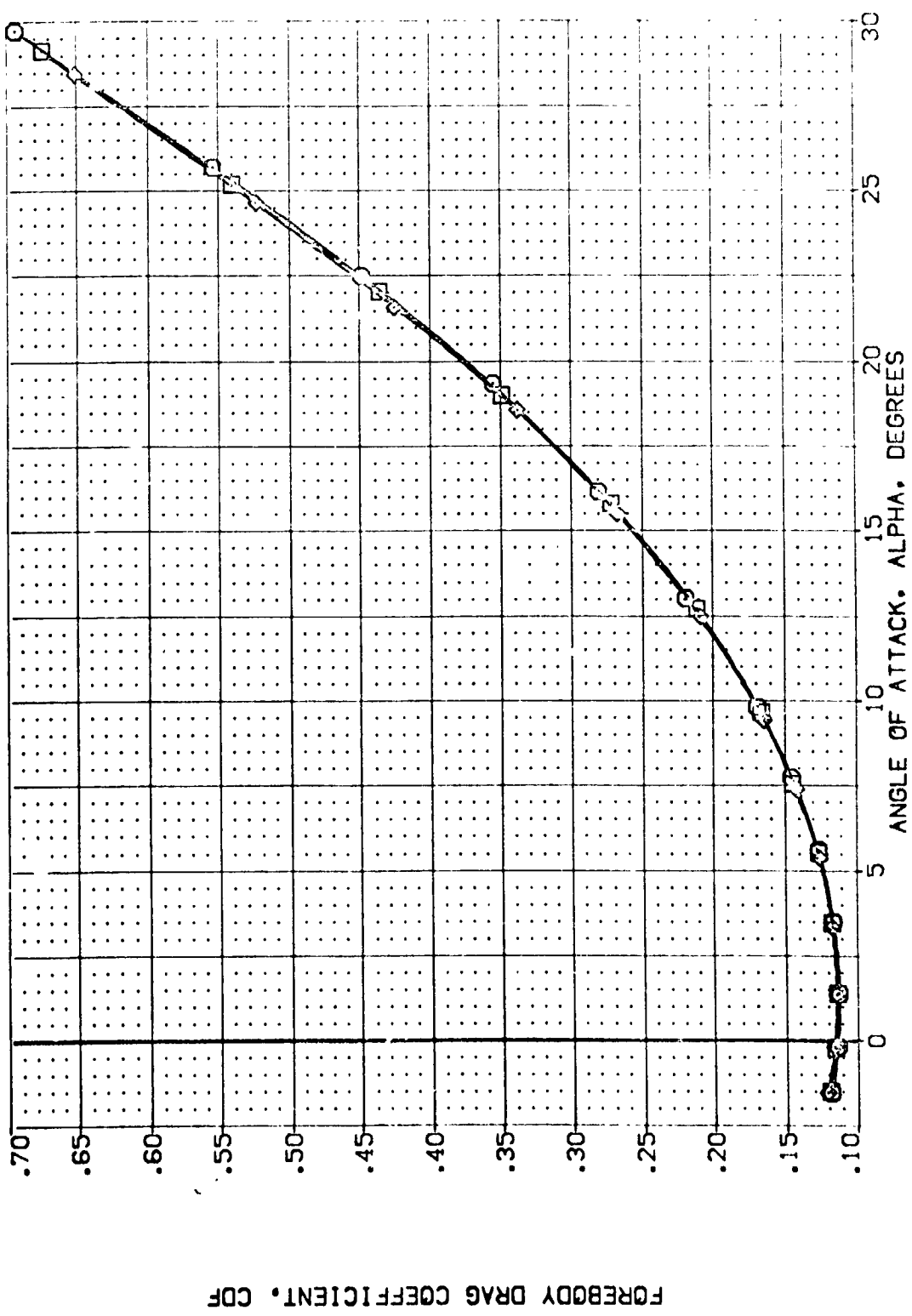


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RNVL	ATLRN	BOFLAP	SPDBRK	REFERENCE INFORMATION
(TEKR17)	ARC 97-747 OAS33 B C M F VI V	4.000	.000	.000	55.000	SREF 2.4210 SQ.FT.
(TEKR18)	ARC 97-747 OAS33 B C M F VI V	2.750	.000	.000	55.000	LREF 14.2410 IN.
(TEKR15)	ARC 97-747 OAS33 B C M F VI V	1.120	.000	.000	55.000	BREF 20.1004 IN.
						XMRP 32.5010 IN.
						YMRP .0000 IN.
						ZMRP 11.2500 IN.
						SCALE .0300

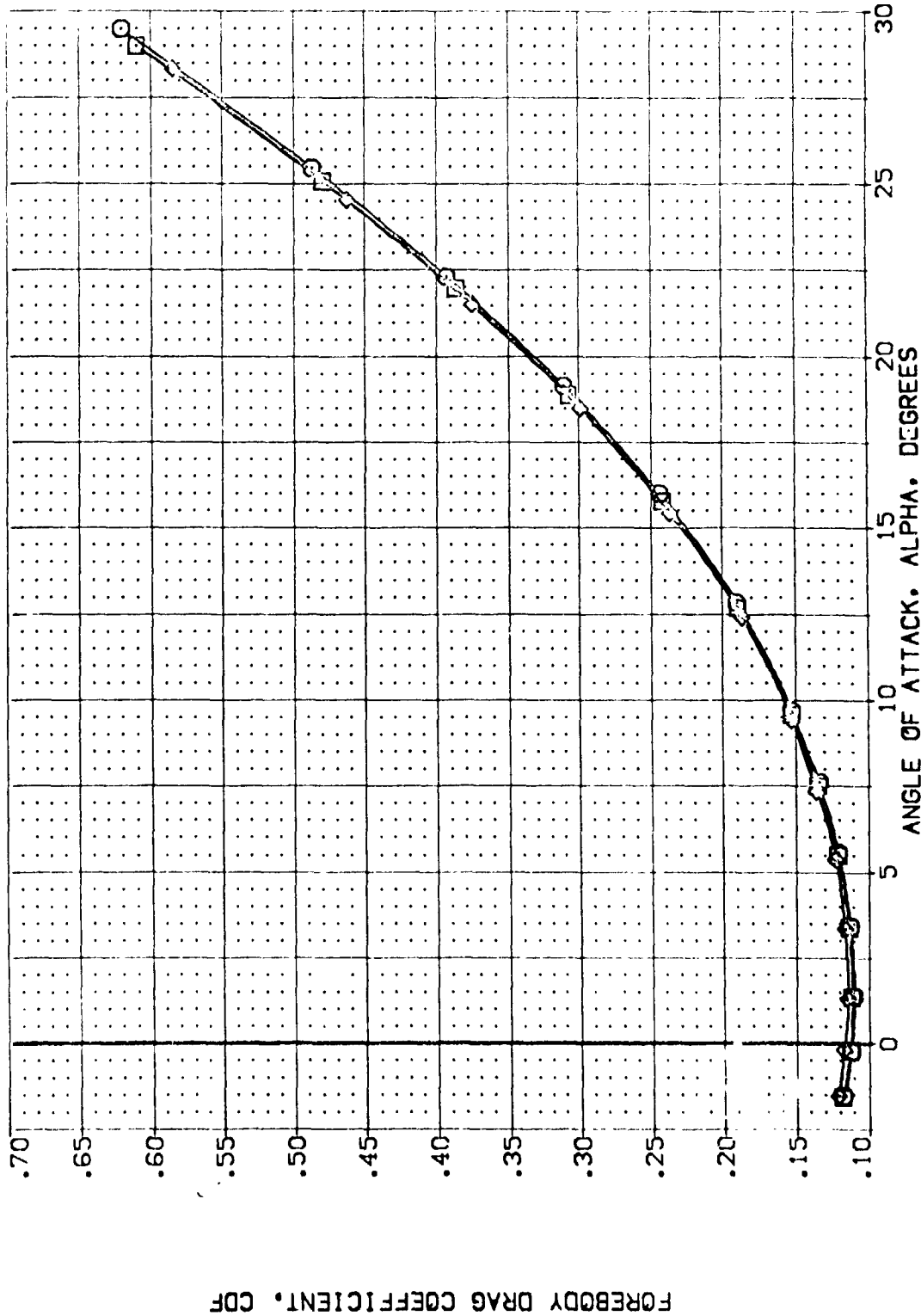


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B) $\mu_{CH} = 2.00$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RV/L	AIRLON	BOFLAP	SPDRK	REFERENCE INFORMATION
[TEKR17]	ARC 97-747 D4S38 B C M F V1 V	4.000	.000	.000	55.000	SREF 2.4210
[TEKR16]	ARC 97-747 D4S38 B C M F V1 V	2.750	.000	.000	55.000	LREF 14.2440
[TEKR15]	ARC 97-747 D4S38 B C M F V1 V	1.120	.000	.000	55.000	BREF 28.1004
						YMRP 32.2010
						ZMRP 11.2500
						SCALE .0500
						SO.FT. IN.

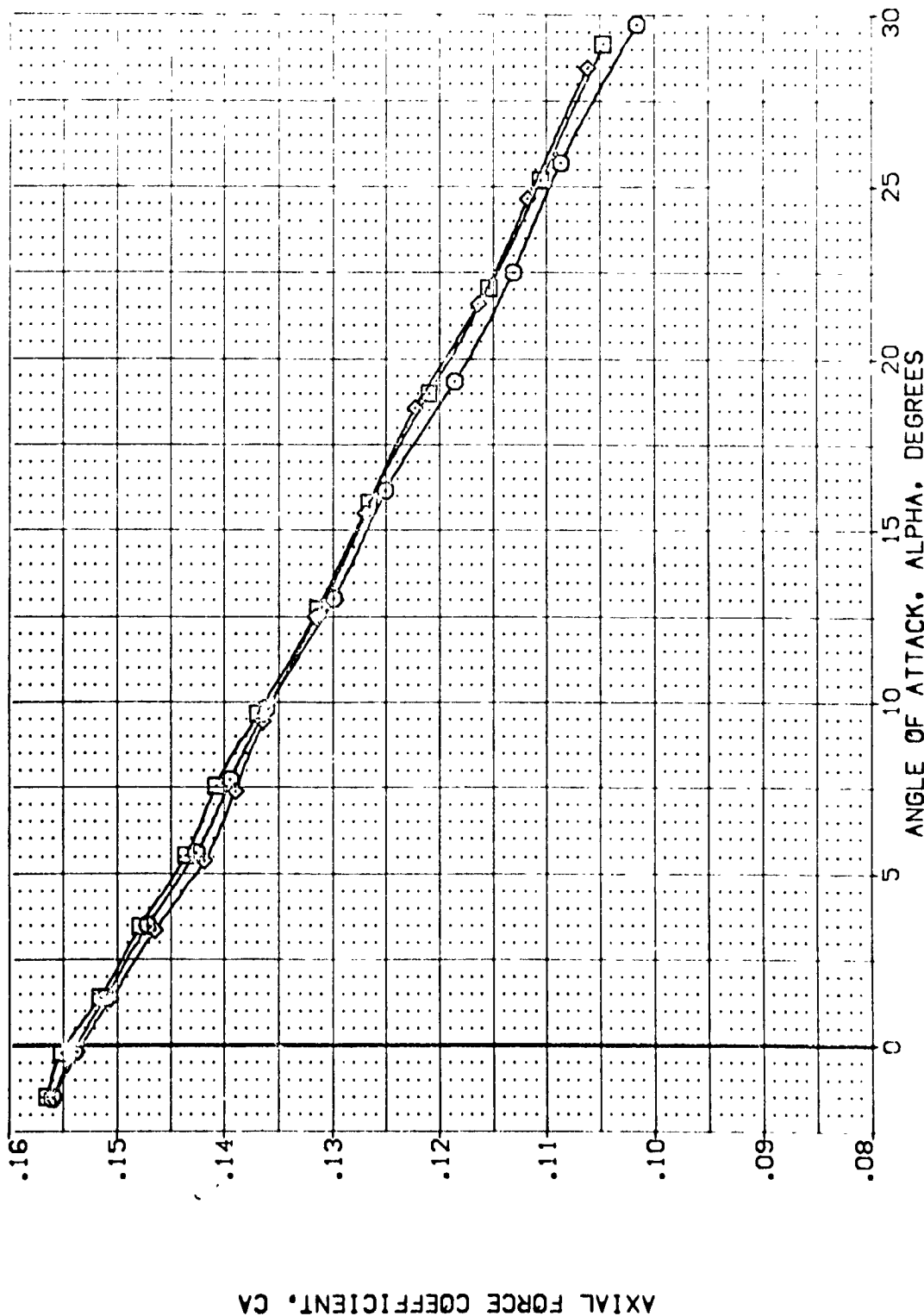


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(A)MACH = 1.60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RV/L	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
{TEKR17}	○	ARC 97-747 CAS38 B C M F V1 V	4.000	.000	.000	55.000	SREF 2.4210 SQ.FT.
{TEKR16}	◇	ARC 97-747 CAS38 B C M F V1 V	2.750	.000	.000	55.000	LREF 14.2440 IN.
{TEKR15}	◇	ARC 97-747 CAS38 B C M F V1 V	1.120	.000	.000	55.000	BSREF 28.1004 IN.
							XMREF 32.3010 IN.
							YMREF 11.0000 IN.
							ZMREF 11.2500 IN.
							SCALE .0300

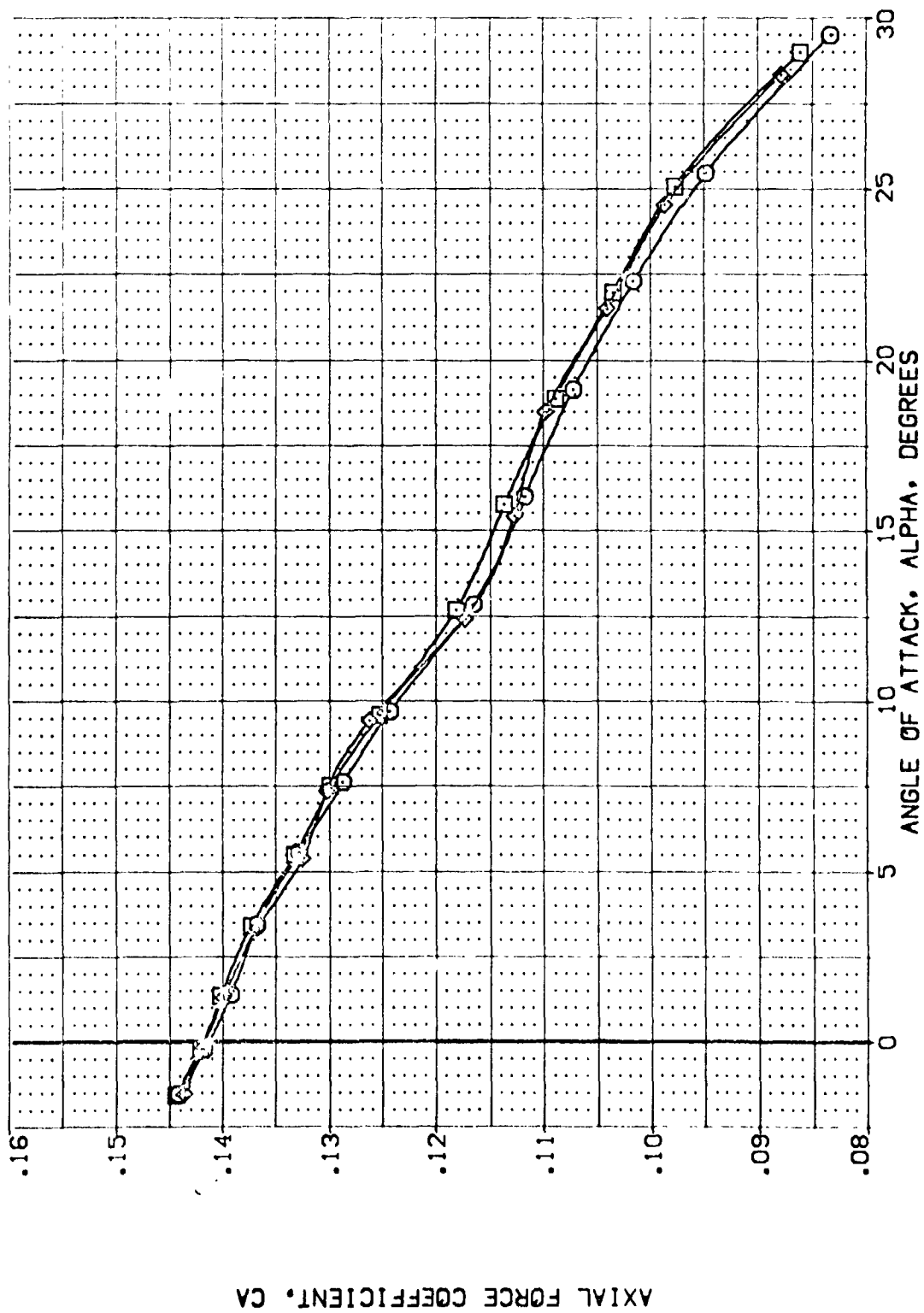


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RV/L	AIL/RON	BD/LAP	SP/DRYK	REFERENCE INFORMATION
{TEKR17}	ARC 97-747 OAS38 B C M F VI V	4.000	.000	.000	55.000	SREF 2.4210 50. FT.
{TEKR16}	ARC 97-747 OAS38 B C M F VI V	2.750	.000	.000	55.000	LREF 14.2440 IN.
{TEKR15}	ARC 97-747 OAS38 B C M F VI V	1.120	.000	.000	55.000	BREF 28.1004 IN.
						YMRP 32.3010 IN.
						ZMRP .0000 IN.
						SCALE 11.7500 IN.
						.0300

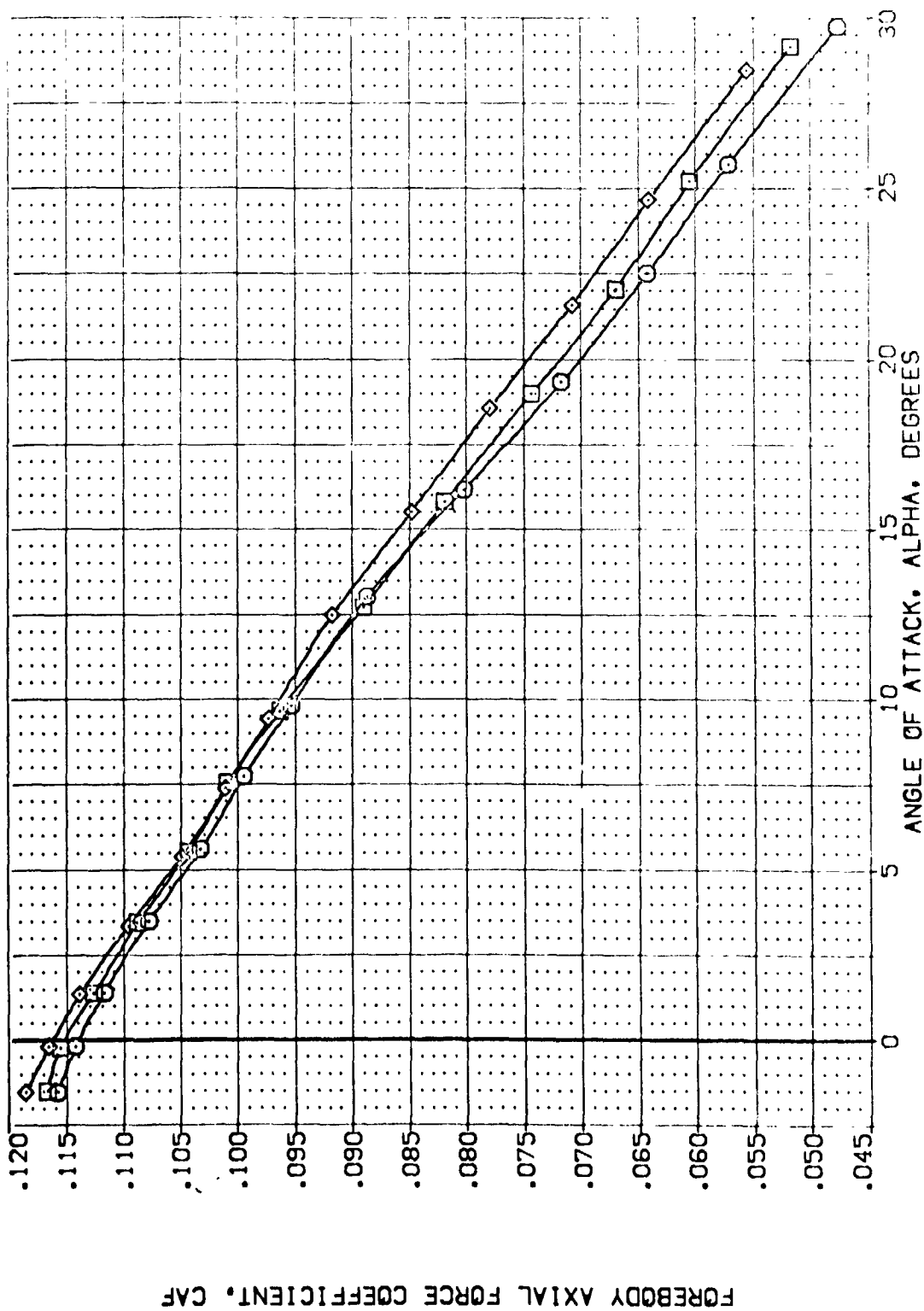


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(MACH = 1.60)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RV/L	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
[TEKRI7]	ARC 97-747 CASED B C M F VI V	4.000	.000	.000	55.000	SREF 2.4210 SQ.FT.
[TEKRI6]	ARC 97-747 CASED B C M F VI V	2.750	.000	.000	55.000	LREF 14.2440 IN.
[TEKRI5]	ARC 97-747 CASED B C M F VI V	1.120	.000	.000	55.000	BREF 20.1004 IN.
						VMRP 32.5010 IN.
						VMRP 10.000 IN.
						ZMRP 11.2600 IN.
						SCALE .0000

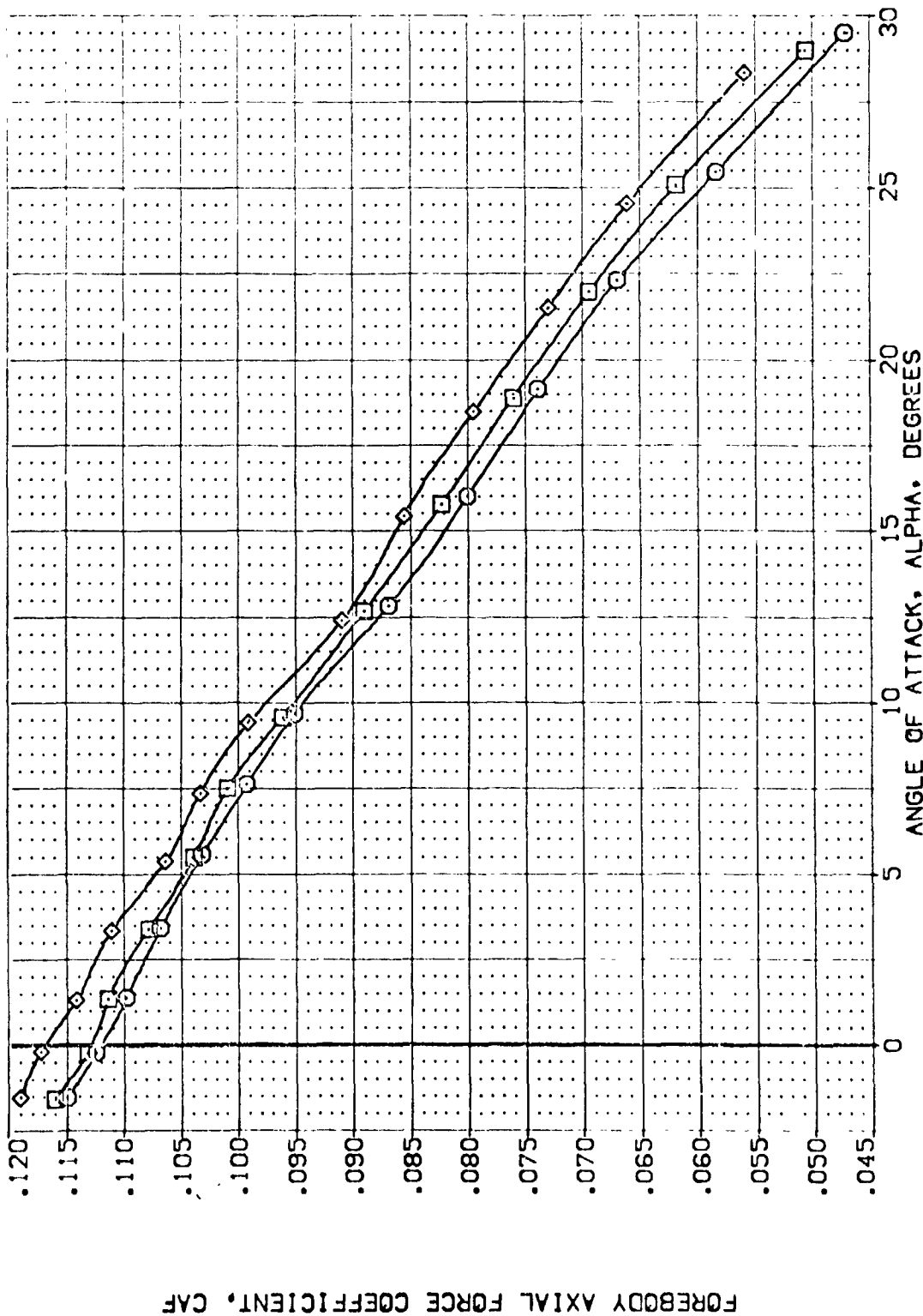


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILRON	BOFLAP	SPOSRK	REFERENCE INFORMATION
(TEKR17)	ARC 97-747 OAS38 B C H F VI V	.000	.000	55.000	SREF 2.4210
(TEKR16)	ARC 97-747 OAS33 B C H F VI V	.000	.000	55.000	LREF 14.2440
(TEKR15)	ARC 97-747 OAS33 B C H F VI V	.000	.000	55.000	EREF 28.1000
					APREF 32.0000
					YREF 11.0000
					ZREF 11.0000
					SCALE .0000

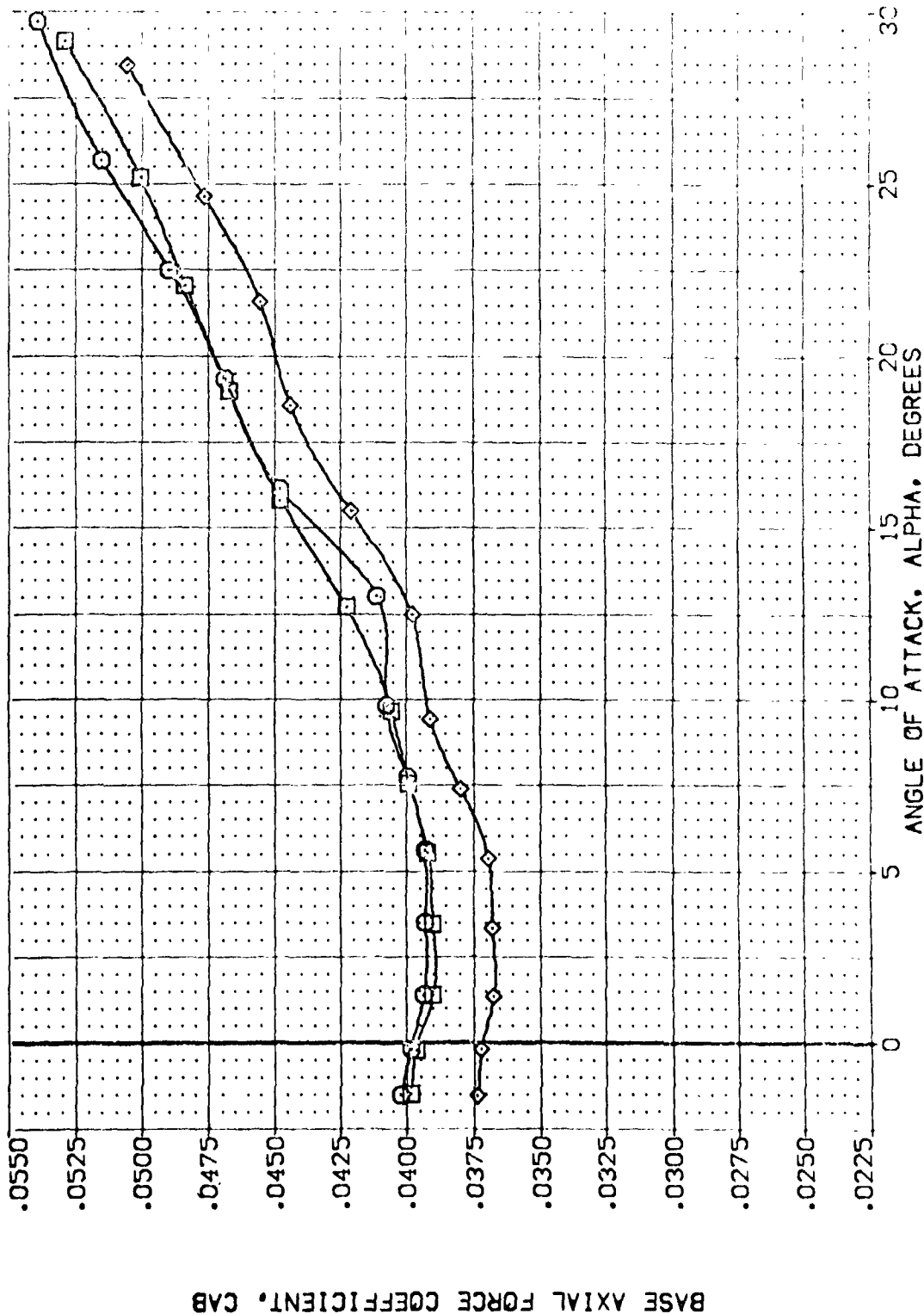


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	HIGH RV/L	RV/L	AILTRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEKR17)	ARC 97-747 CASE3 B C M F V1	V	4.000	.000	.000	55.000	STREF 2.4210 SQ.FT.
(TEKR16)	ARC 97-747 CASE3 B C M F V1	V	2.750	.000	.000	55.000	LREF 14.2480 IN.
(TEKR15)	ARC 97-747 CASE3 B C M F V1	V	1.120	.000	.000	55.000	EREF 20.1000 IN.
							XPBP 32.2010 IN.
							YMPP 11.0000 IN.
							ZMPP 11.0000 IN.
							SCALE .0050

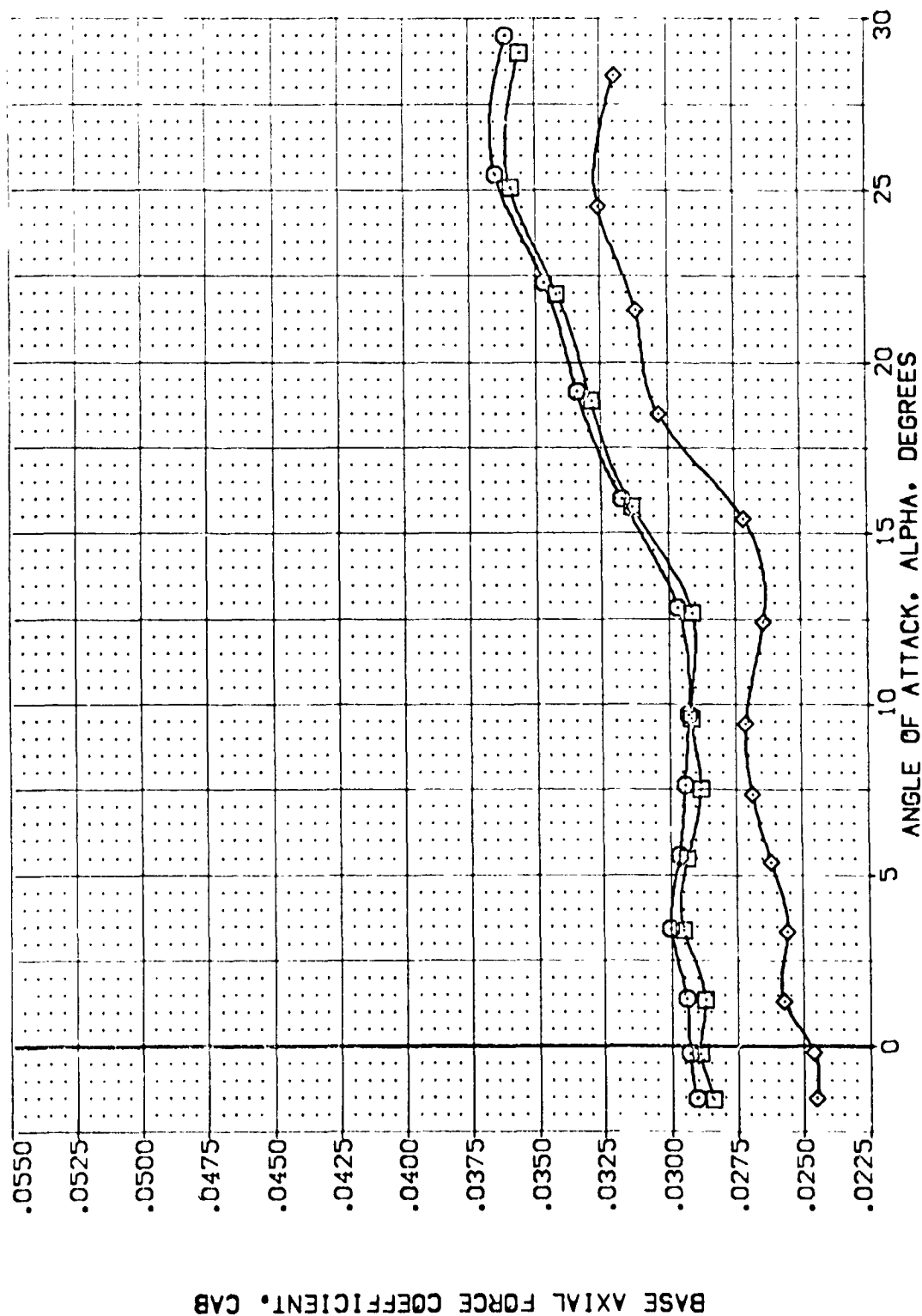


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RV/L	AIL/RN	BD/LAP	SPOBRK	REFERENCE INFORMATION
(TEKR17)	ARC 97-747 0A538 B C M F V1	4.000	.000	.000	55.000	SREF 2.4210 SQ.FT.
(TEKR16)	ARC 97-747 0A533 B C M F V1	2.750	.000	.000	55.000	LREF 14.2400 IN.
(TEKR15)	ARC 97-747 0A533 B C M F V1	1.120	.000	.000	55.000	EREF 23.1004 IN.
						XMREF 32.9310 IN.
						YMREF .0000 IN.
						ZMREF 11.2500 IN.
						SCALE .0000

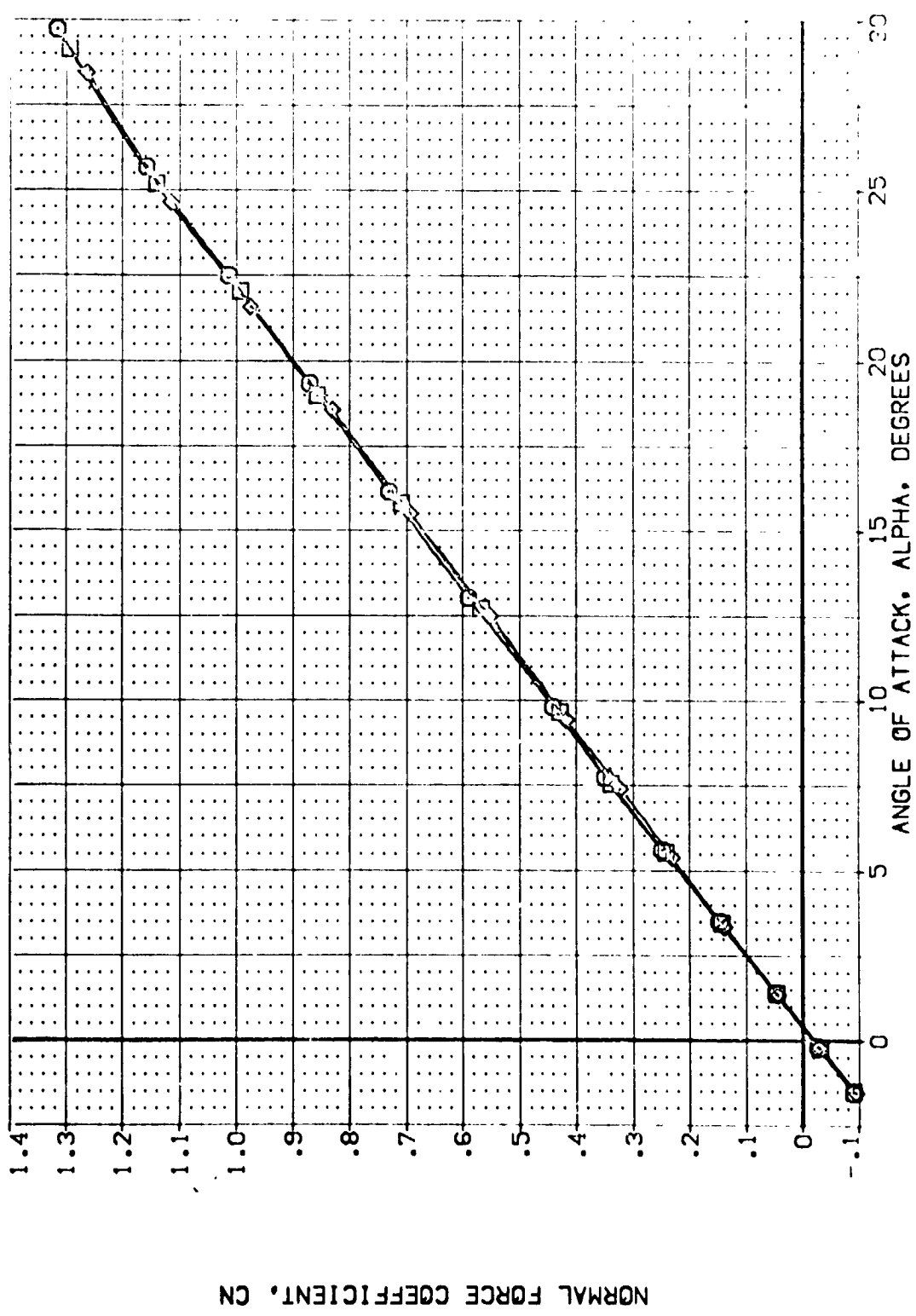


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(M)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RV/L	ATL/RN	BDF/LAP	SPOBRK	REFERENCE INFORMATION
(TEKR17)	ARC 97-747 CAS29 B C M F VI V	4.000	.000	.000	55.000	SREF 2.4210 50. FT.
(TEKR16)	ARC 97-747 CAS29 B C M F VI V	2.750	.000	.000	55.000	LFEE 14.2440 IN.
(TEKR15)	ARC 97-747 CAS29 B C M F VI V	1.120	.000	.000	55.000	ECUF 20.1000 IN.
						YM7P 32.5010 IN.
						YM7P 0.000 IN.
						ZM7P 11.2000 IN.
						SCALE .0000

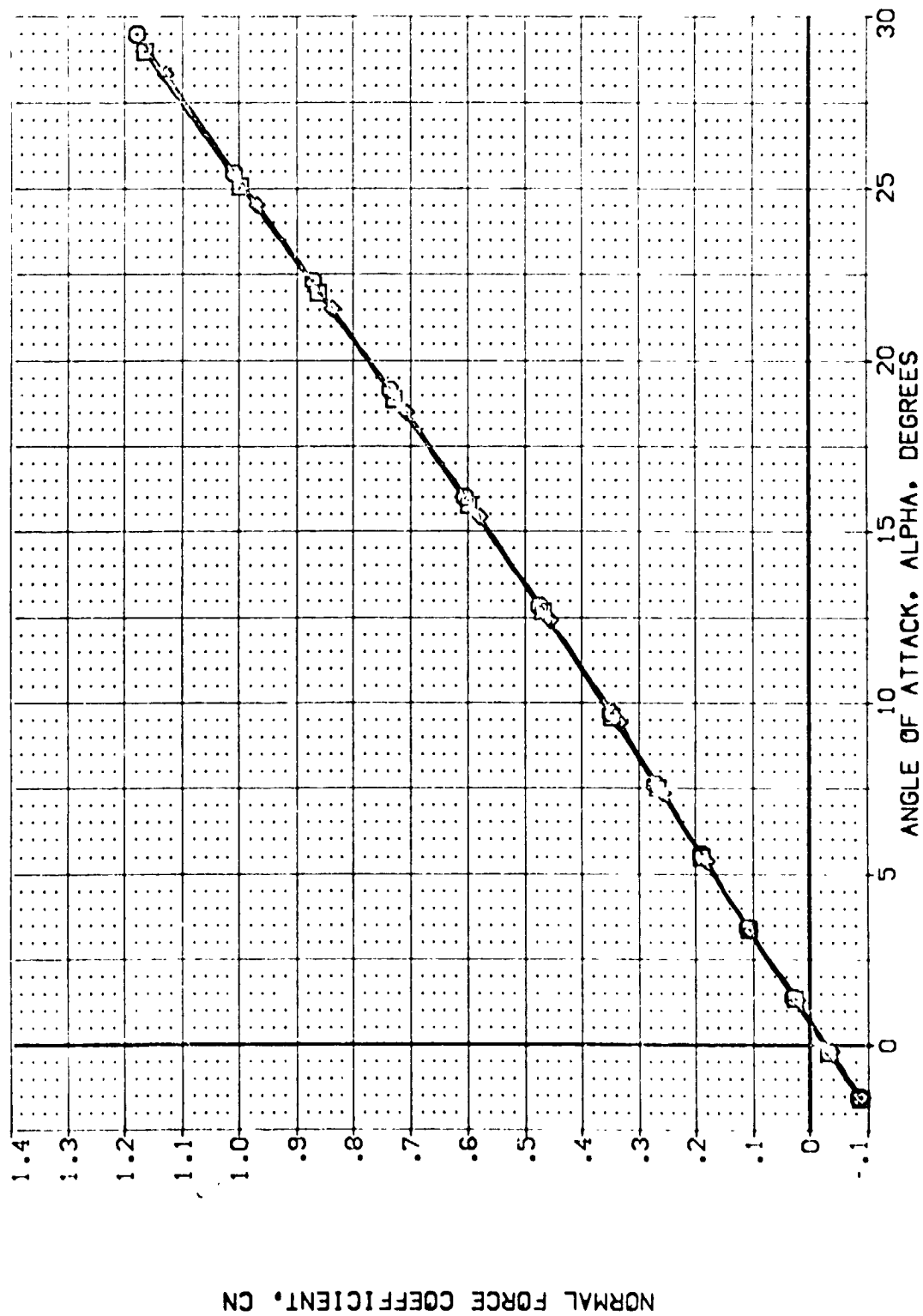


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RVL	AILRON	BOFLAP	SPORBK	REFERENCE INFORMATION
[TEPR17]	ARC 97-747 OAS38 B C M F VI V	4.000	.000	.000	55.000	SREF 2.4210 50.0 FT.
[TEPR16]	ARC 97-747 OAS38 B C M F VI V	2.750	.000	.000	55.000	LREF 14.2740 IN.
[TEPR15]	ARC 97-747 OAS38 B C M F VI V	1.120	.000	.000	55.000	EDEF 28.1004 IN.
						XREF 32.0010 IN.
						YREF 11.2500 IN.
						ZREF 11.2500 IN.
						SCALE .0000

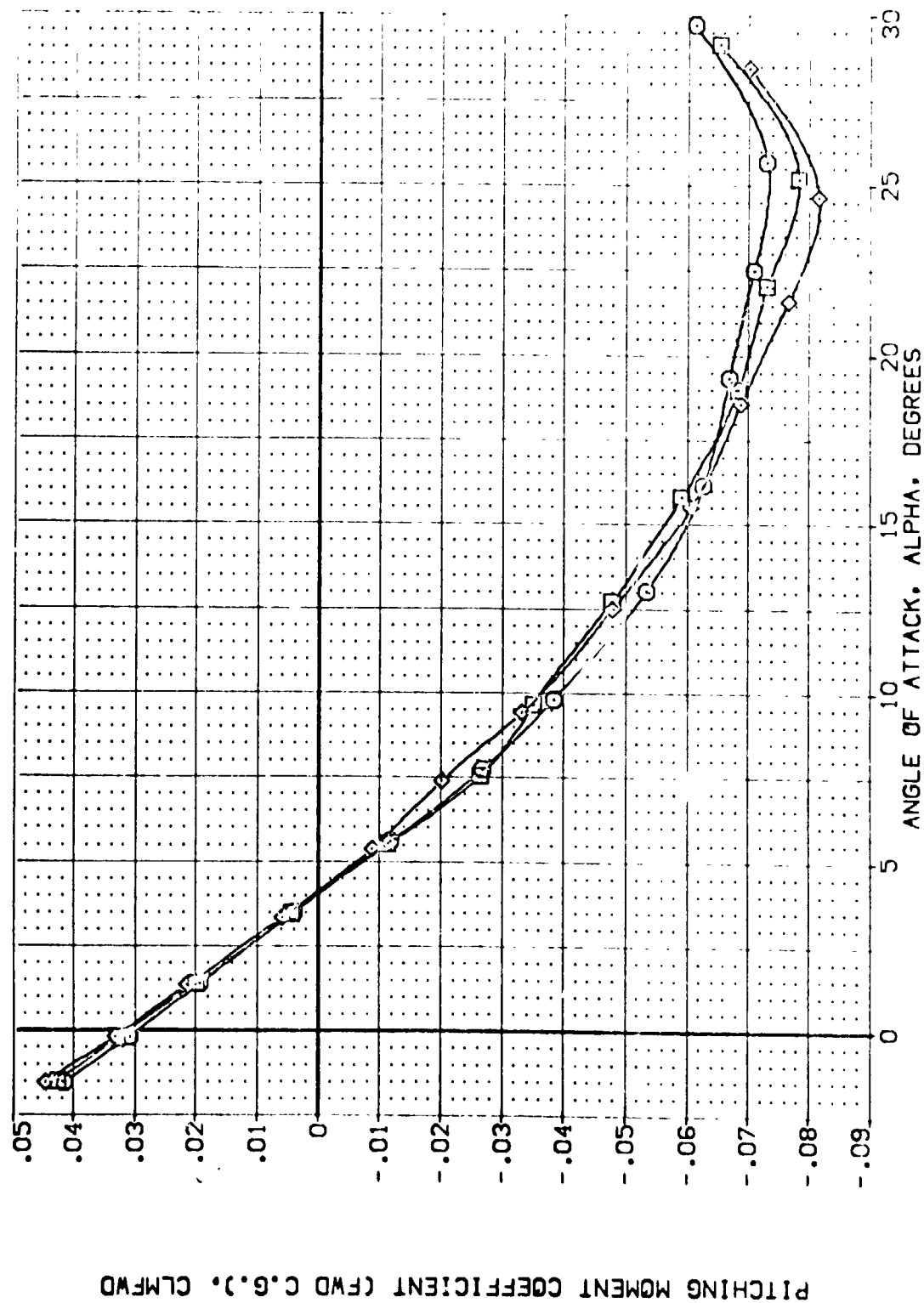
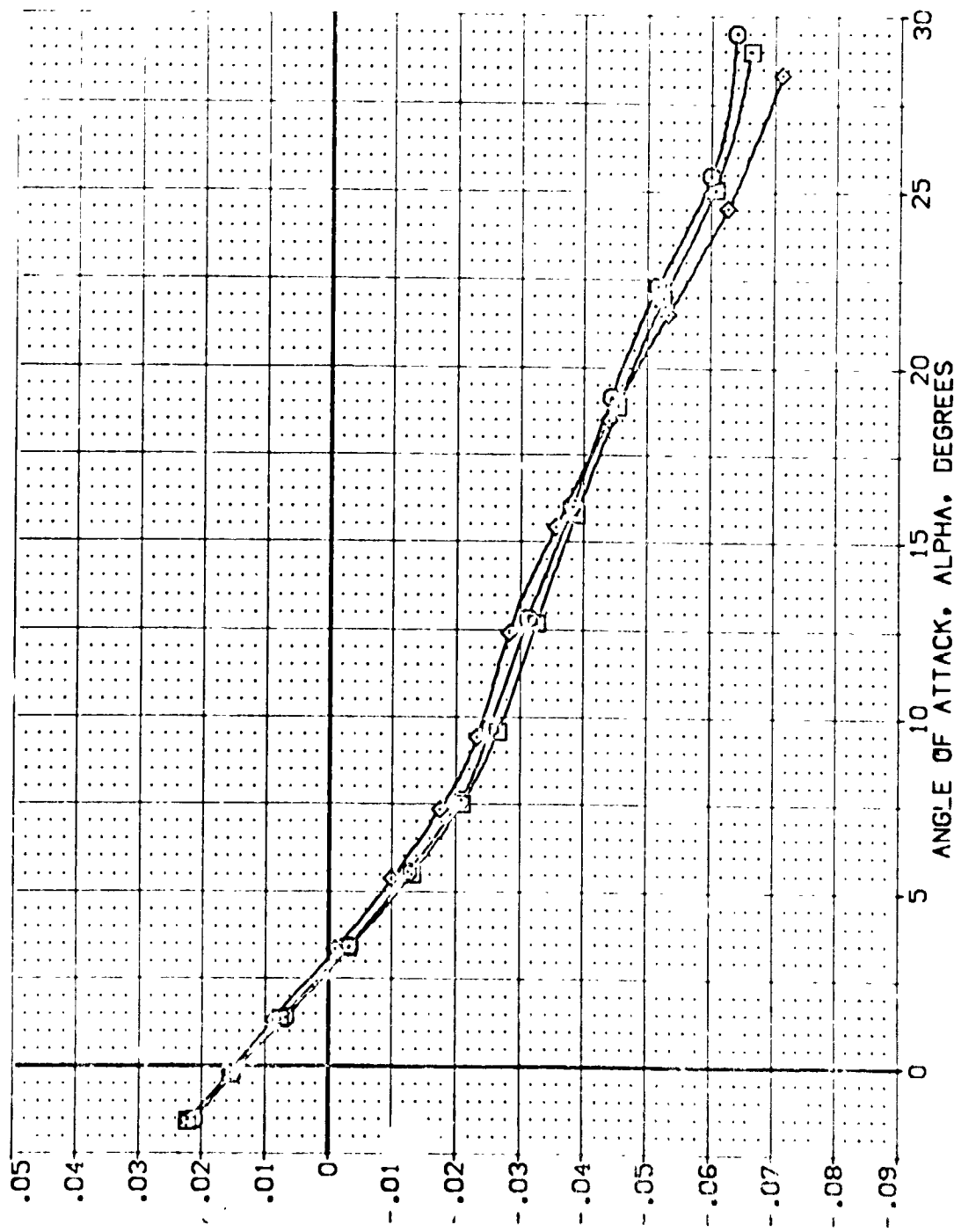


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	HIGH RV/L	LOW RV/L	RV/L	AIL/ON	BO/LAP	SP/DRK	REFERENCE INFORMATION
(TE/R:7)	ARC 57-747 0A503 B C M F VI V	4.000	1.120	4.000	.000	.000	55.000	SREF 2.4210
(TE/R:6)	ARC 57-747 0A503 B C M F VI V	2.750	1.120	2.750	.000	.000	55.000	LSREF 14.2643
(TE/R:5)	ARC 57-747 0A503 B C M F VI V	1.120	1.120	1.120	.000	.000	55.000	LSREF 23.1654
								LSREF 32.1516
								LSREF 11.2500
								SCALE .0000



PITCHING MOMENT COEFFICIENT (Cm) C.G., CLMFW

FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RV/L	AIRLON	BOFLAP	SPDRK	REFERENCE INFORMATION
(TEKR17)	ARC 97-747 OAS33 B C H F VI V	4.000	.000	.000	55.000	STREF 2.4210
(TEKR16)	ARC 97-747 OAS33 B C H F VI V	2.750	.000	.000	55.000	LREF 14.2440
(TEKR15)	ARC 97-747 OAS33 B C H F VI V	1.120	.000	.000	55.000	BRF 28.0001
						XXAP 32.0010
						YAP 11.0000
						SCALE .0030

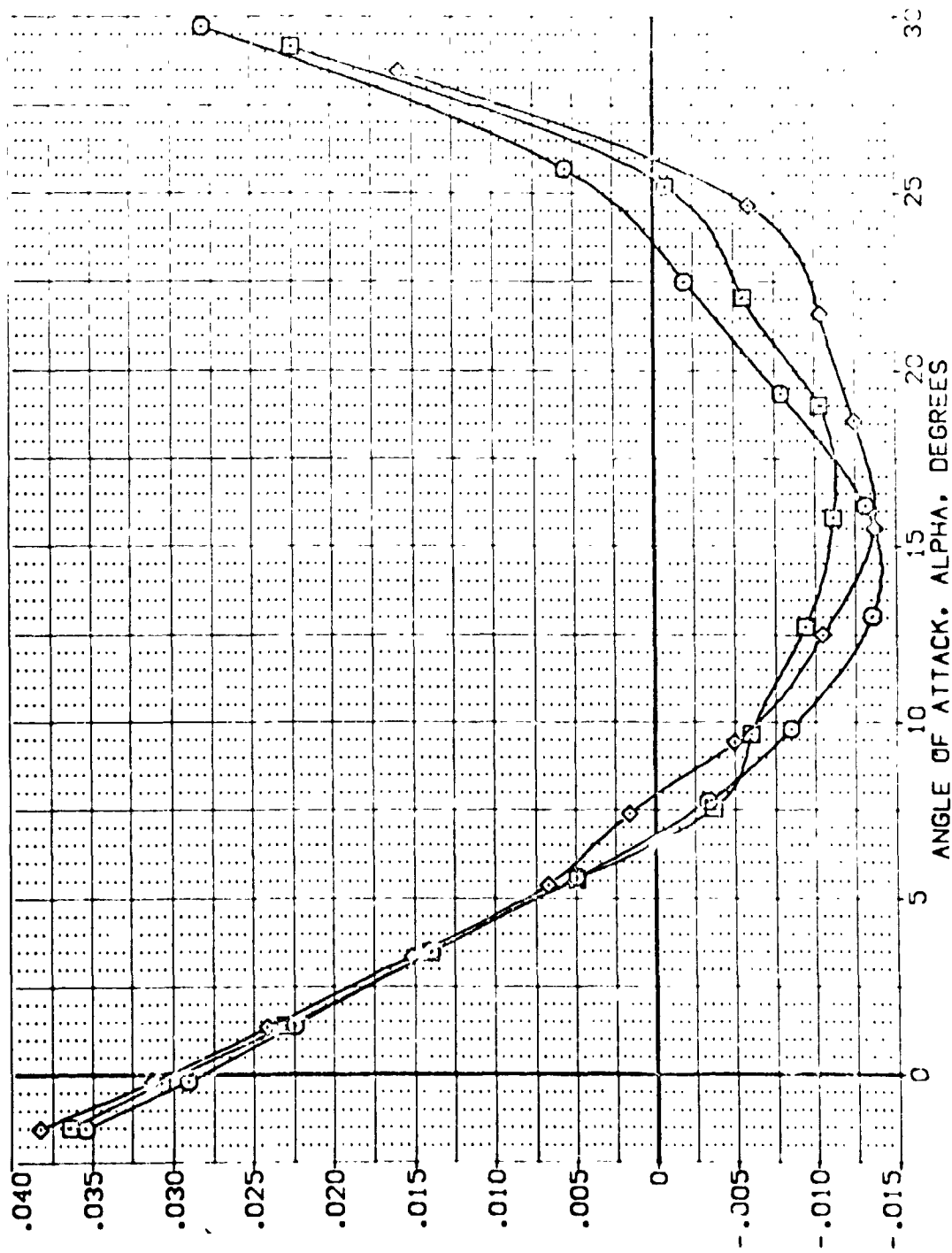


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS
 (MACH = 1.60)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RV/L	AIL/RON	BO/LAP	SPO/BRK	REFERENCE INFORMATION
{TEPR17}	ARC 97-747 B4529 B C M F V1 V	4.000	.000	.000	55.000	SR/F 2.4210 SQ.FT.
{TEPR16}	ARC 97-747 B4529 B C M F V1 V	2.750	.000	.000	55.000	LR/F 14.2640 IN.
{TEPR15}	ARC 97-747 B4529 B C M F V1 V	1.120	.000	.000	55.000	DR/F 20.1004 IN.
						MR/F 32.1010 IN.
						YR/F 11.2000 IN.
						SCALE .0000

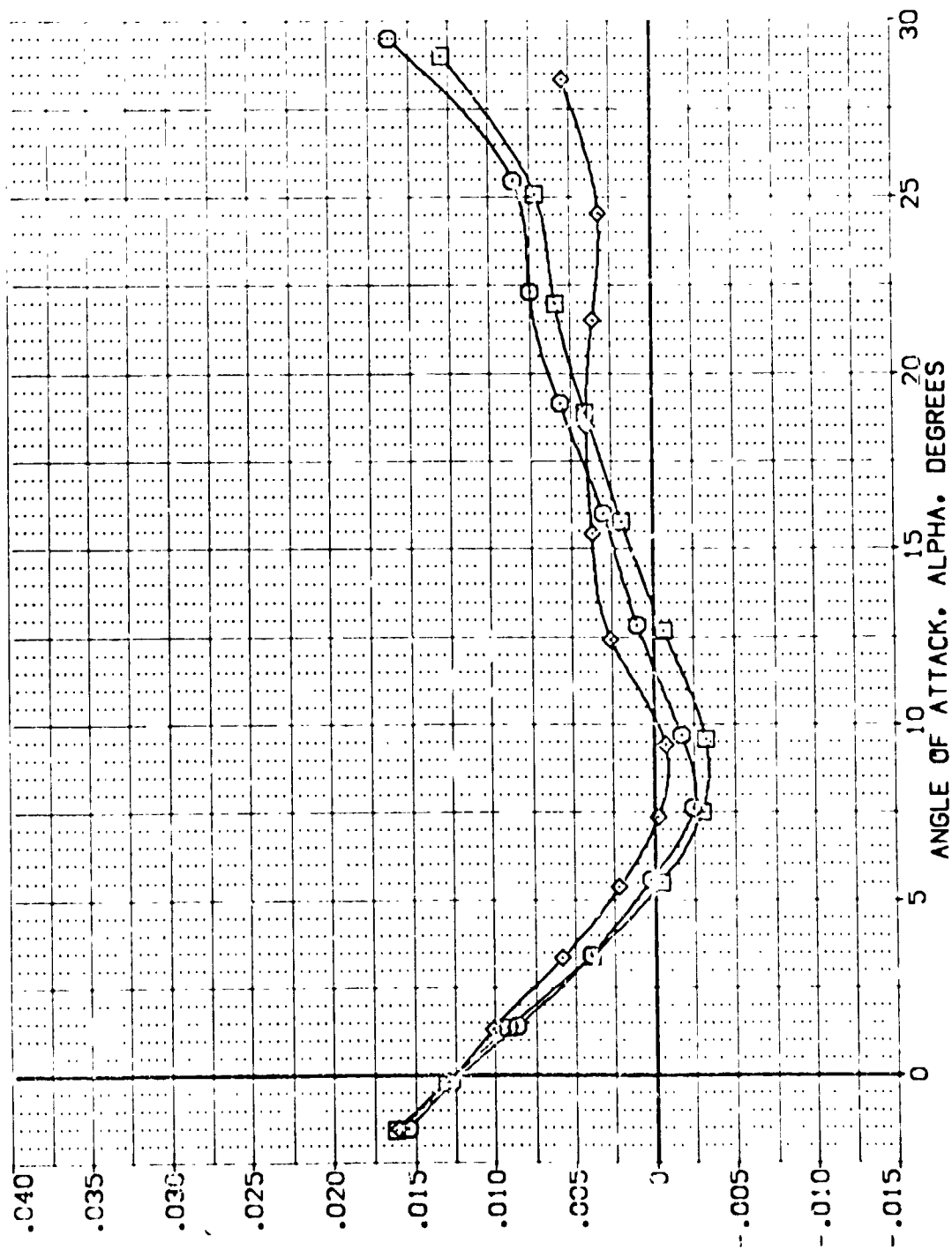


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B) MACH = 2.00

NORMAL FORCE COEFFICIENT, CN

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	R. / L	AIRLON	BOFLAP	SPDBRK	REFERENCE INFORMATION
(TEKR17)	ARC 97-747 DA538 B C M F VI V	4.000	.000	.000	55.000	SREF 2.4210 SQ. FT.
(TEKR16)	ARC 97-747 DA533 B C M F VI V	2.750	.000	.000	55.000	LREF 14.2440 IN.
(TEKR15)	ARC 97-747 DA533 B C M F VI V	1.120	.000	.000	55.000	EREF 39.1034 IN.
						XREF 32.1034 IN.
						YREF 11.2500 IN.
						ZREF 11.2500 IN.
						SCALE .0300

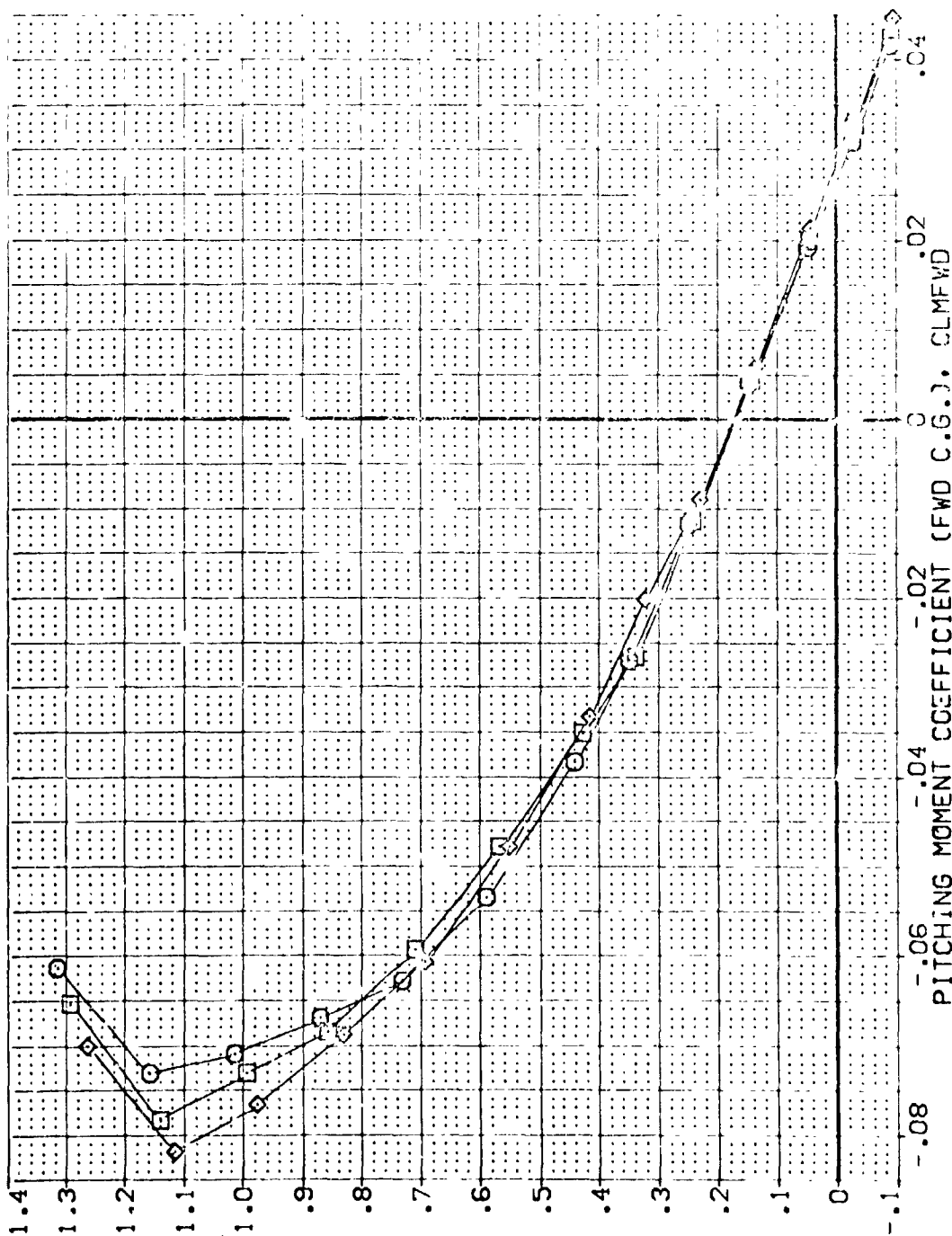


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RV/L	AILRON	BOFLAP	SPDRK	REFERENCE INFORMATION
[EXR17]	ARC 97-747 OAS33 B C M F V1 V	4.000	.000	.000	55.000	SREF 2.4210 SC.FT.
[EXR16]	ARC 97-747 OAS33 B C M F V1 V	2.750	.000	.000	53.000	LRREF 14.2440 IN.
[EXR15]	ARC 97-747 OAS33 B C M F V1 V	1.120	.000	.000	55.000	LRREF 20.1000 IN.
						XRREF 32.0010 IN.
						XRREF 11.0000 IN.
						XRREF 11.2000 IN.
						SCALE .0000

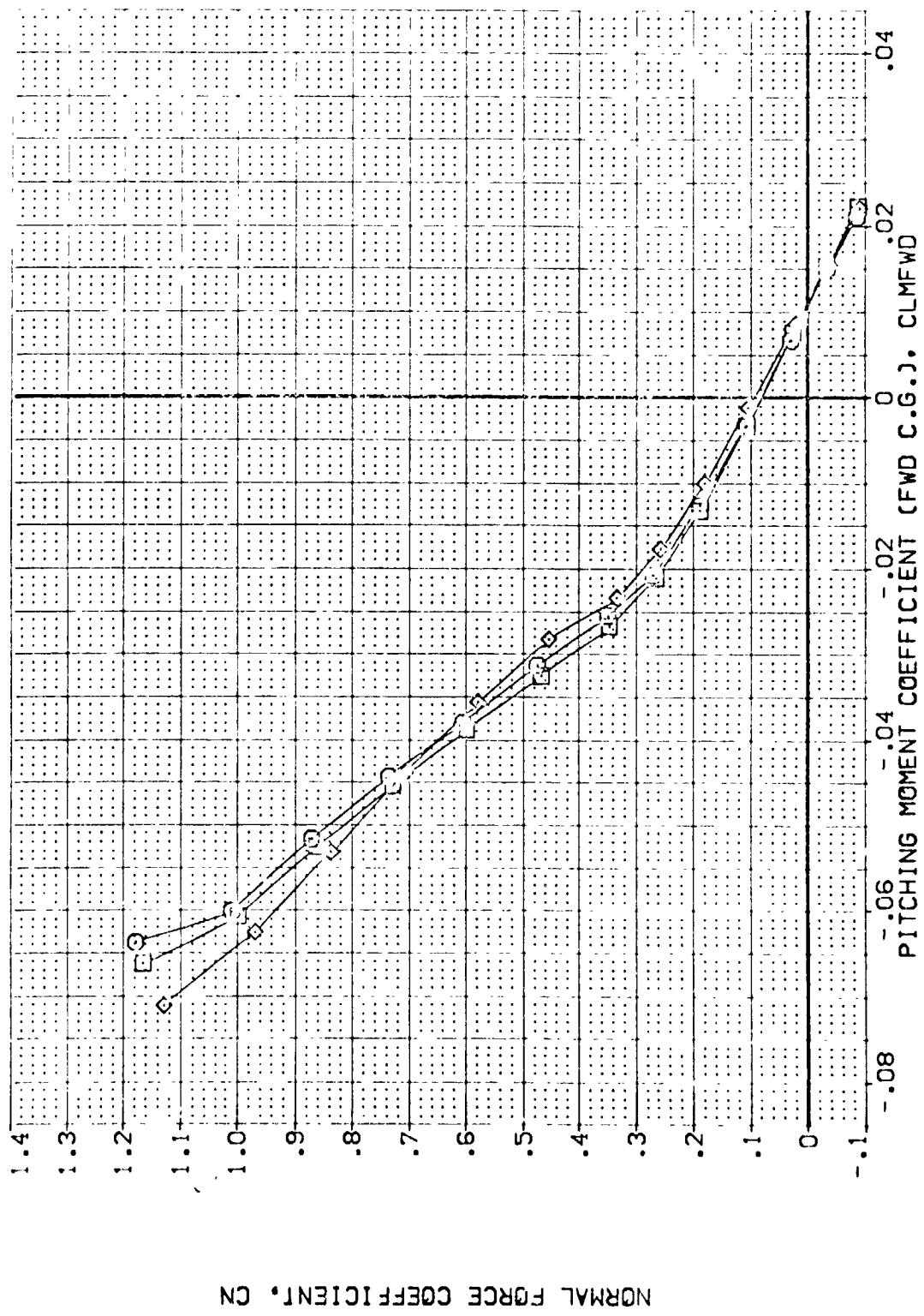


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RV/L	AIL/RON	BO/LAP	SPO/RK	REFERENCE INFORMATION
[TEPR17]	ARC 97-747 BA538 B C M F V1 V	4.000	.000	.000	55.000	SREF 2.4210 SQ.FT.
[TEPR16]	ARC 97-747 BA538 B C M F V1 V	2.750	.000	.000	55.000	LREF 14.2440 IN.
[TEPR15]	ARC 97-747 BA538 B C M F V1 V	1.120	.000	.000	55.000	EREF 28.1054 IN.
						XRMP 32.0310 IN.
						YRMP 11.2000 IN.
						ZRMP 11.2000 IN.
						SCALE .0000

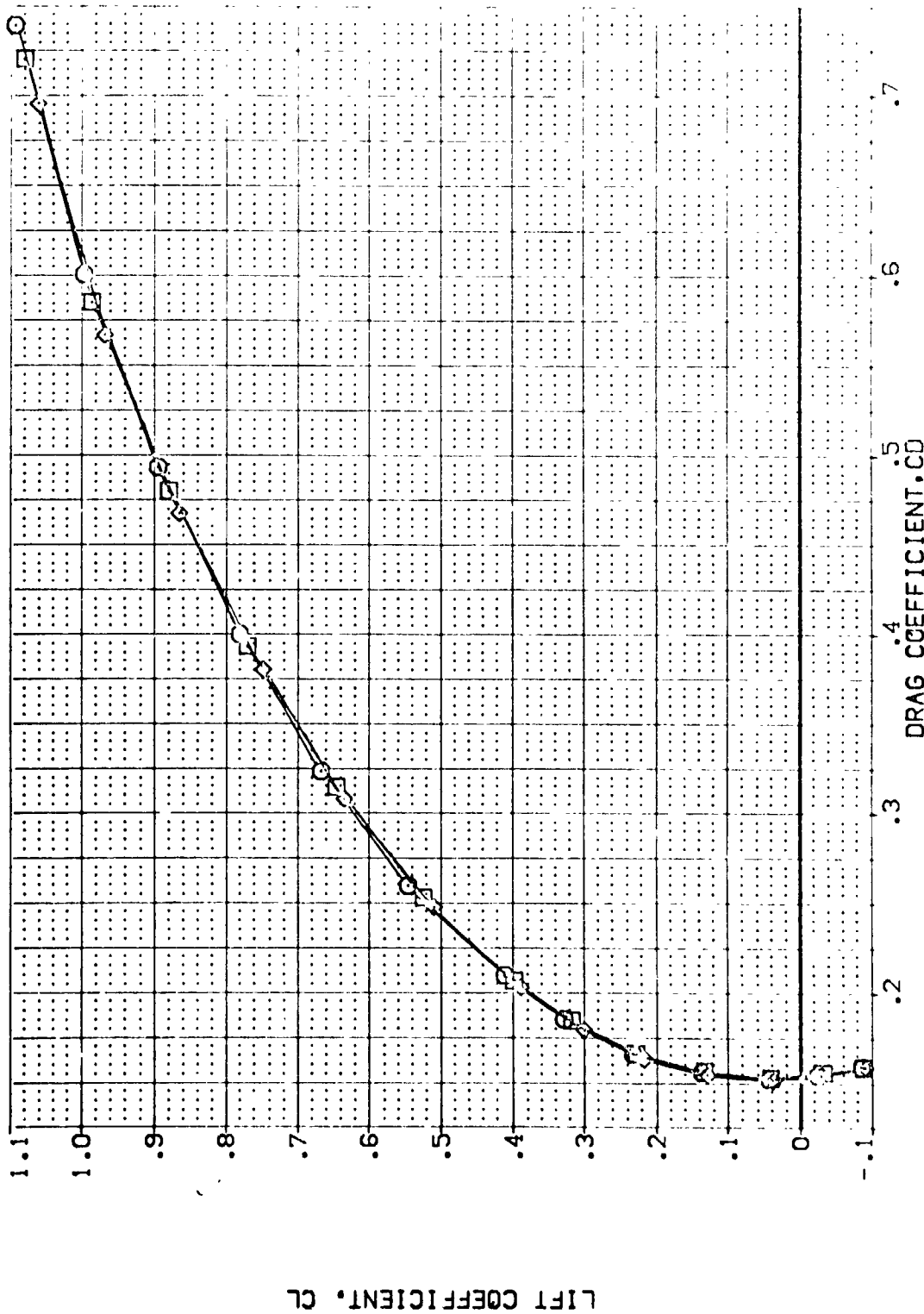


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(M)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RV/L	AILRON	BDFLAP	SPDBRK	REFERENCE INFORMATION
[TE-R:17]	ARC 97-747 CASE3 B C M F VI V	4.000	.000	.000	55.000	SREF 2.4210 53. FT.
[TE-R:16]	ARC 97-747 CASE3 B C M F VI V	2.750	.000	.000	55.000	LREF 14.2440 IN.
[TE-R:15]	ARC 97-747 CASE3 B C M F VI V	1.120	.000	.000	55.000	ETREF 23.1004 IN.
						XTREF 32.1500 IN.
						VMREF .0000 IN.
						ZMREF 11.2500 IN.
						SCALE .0000

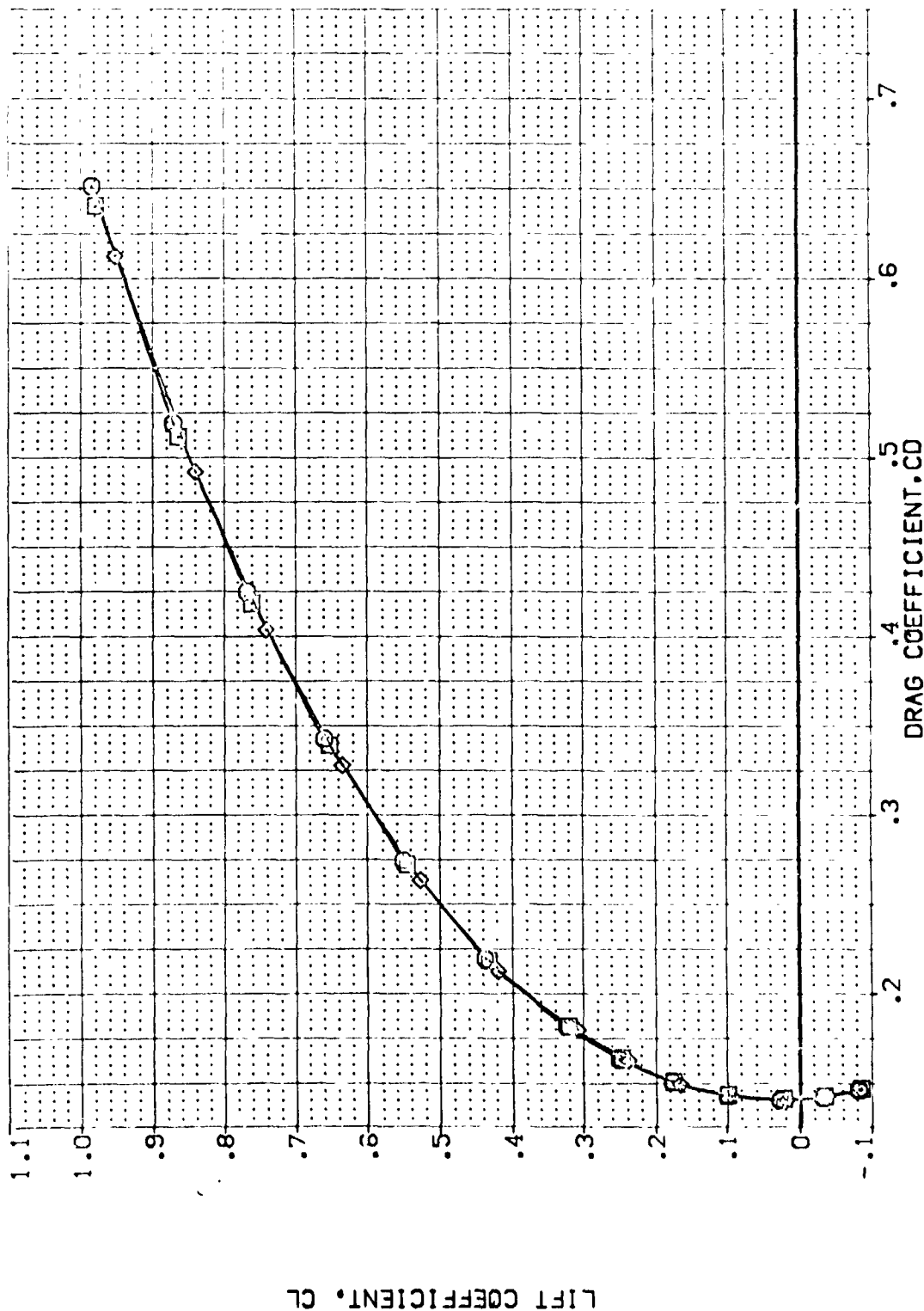


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	R/V/L	AIRLON	BOFLAP	SPDRK	REFERENCE INFORMATION
(TEKR17)	ARC 97-747 QAS33 B C M F V1 V	4.000	.000	.000	55.000	SREF 2.4210 50. FT.
(TEKR16)	ARC 97-747 QAS33 B C M F V1 V	2.750	.000	.000	55.000	LREF 14.2440 IN.
(TEKR15)	ARC 97-747 QAS33 B C M F V1 V	1.120	.000	.000	55.000	BREF 23.1004 IN.
						XMRP 32.5016 IN.
						YMRP 11.2500 IN.
						SCALE .0000

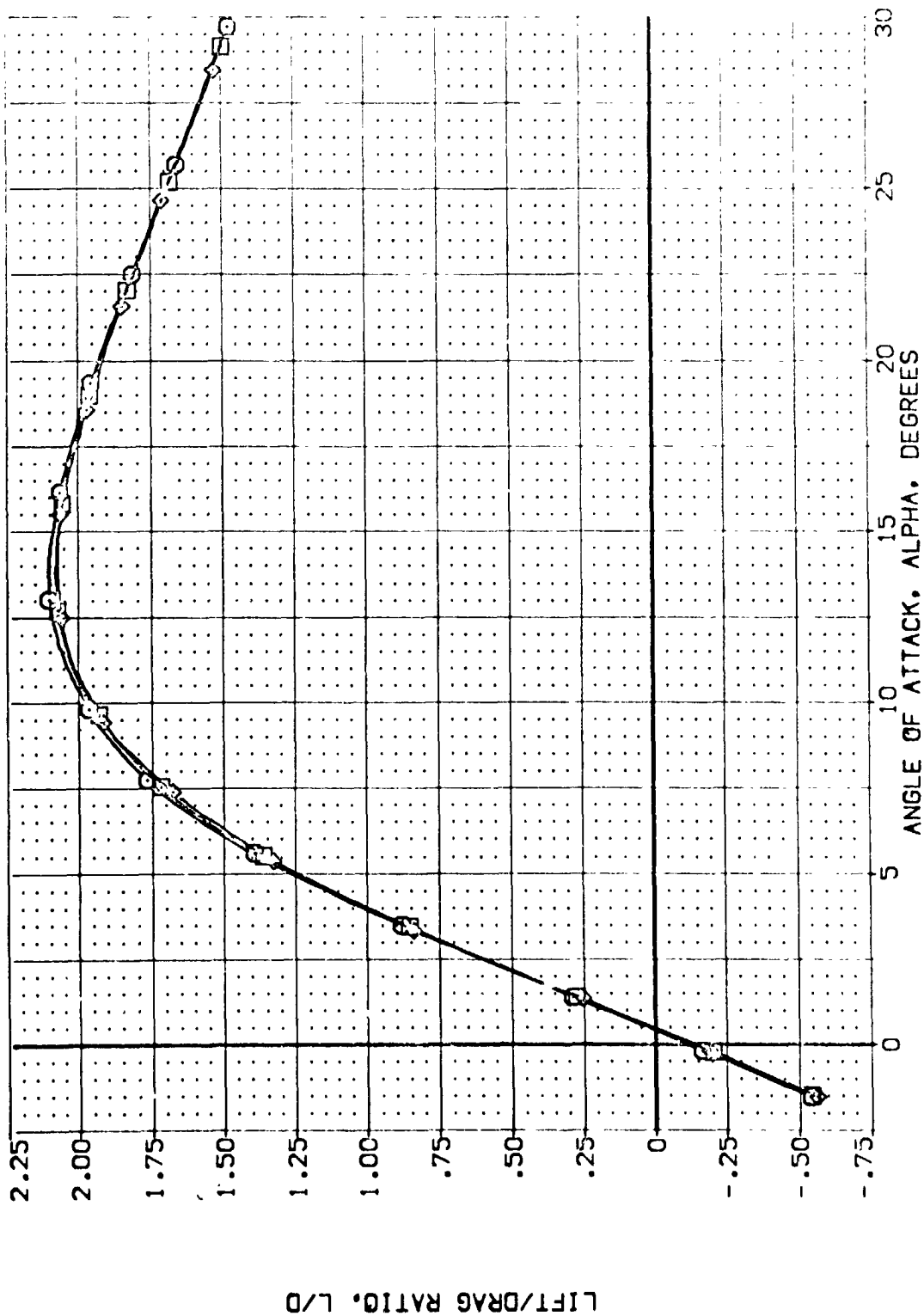


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RV/L	AIL/RON	BD/LAP	SP/BRK	REFERENCE INFORMATION
[TEKR17]	ARC 97-747 CAS33 B C M F VI V	4.000	.000	.000	55.000	SREF 2.4210 SQ.FT.
[TEKR16]	ARC 97-747 CAS33 B C M F VI V	2.750	.000	.000	55.000	LREF 14.2740 IN.
[TEKR15]	ARC 97-747 CAS33 B C M F VI V	1.120	.000	.000	55.000	SREF 29.1004 IN.
						XMTP 32.5010 IN.
						YMTP .0000 IN.
						ZMTP 11.2500 IN.
						SCALE .0000

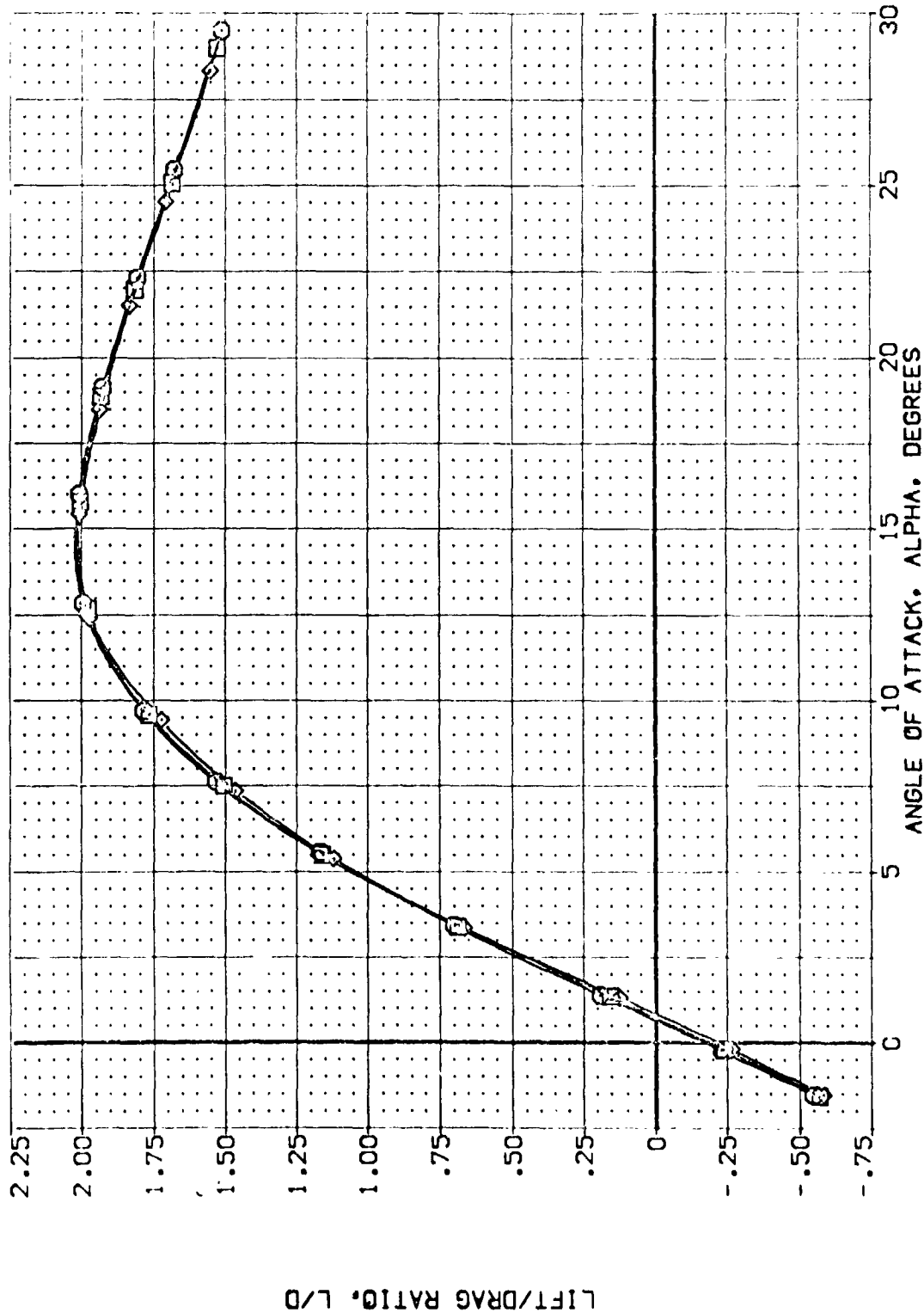


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RVL	AIRLON	BOFLAP	SPOBRK	REFERENCE INFORMATION
{AEKR17}	ARC 97-747 OAS33 B C H F VI V HIGH RVL	4.000	.000	.000	55.000	SREF 2.4210 50. FT.
{AEKR16}	ARC 97-747 OAS33 B C H F VI V NOM. RVL	2.750	.000	.000	55.000	LREF 14.2440 IN.
{AEKR15}	ARC 97-747 OAS33 B C H F VI V LOW RVL	1.120	.000	.000	55.000	BREF 20.1000 IN.
						XMCP 32.1010 IN.
						YMCP .0000 IN.
						ZMCP 11.2600 IN.
						SCALE .0000

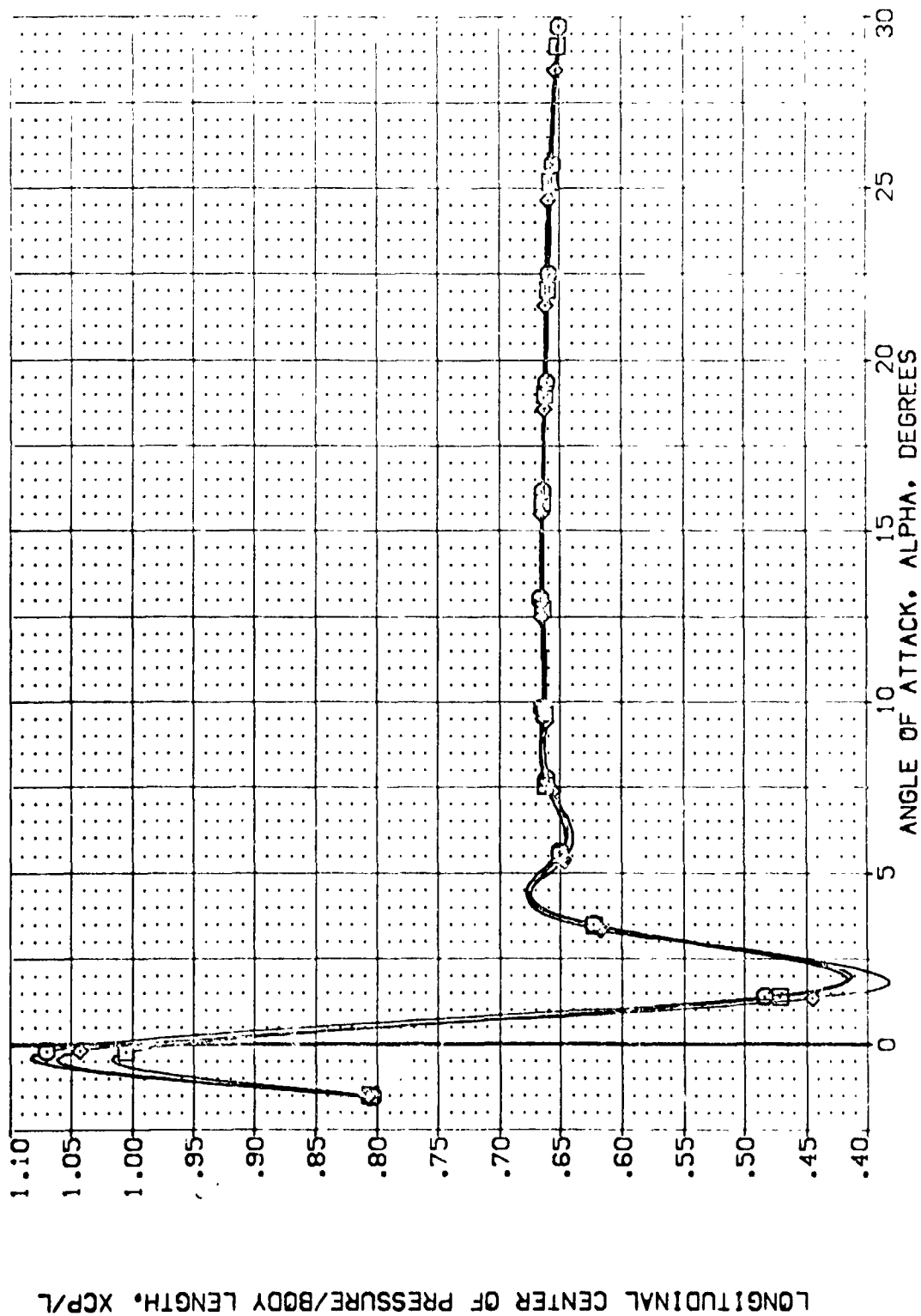


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

[A]MAC+ = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RNVL	AILRN	BOFLAP	SPOBTRK	REFERENCE INFORMATION
[AEKR17]	ARC 97-747 CASE33 B C M F VI V	4.000	.000	.000	55.000	SREF 2.4210 SQ.FT.
[AEKR16]	ARC 97-747 CASE33 B C M F VI V	2.750	.000	.000	55.000	LREF 14.2140 IN.
[AEKR15]	ARC 97-747 CASE33 B C M F VI V	1.120	.000	.000	55.000	EREF 20.1004 IN.
						XMAP 32.3010 IN.
						YMAP .0000 IN.
						ZMAP 11.0000 IN.
						SCALE .0000

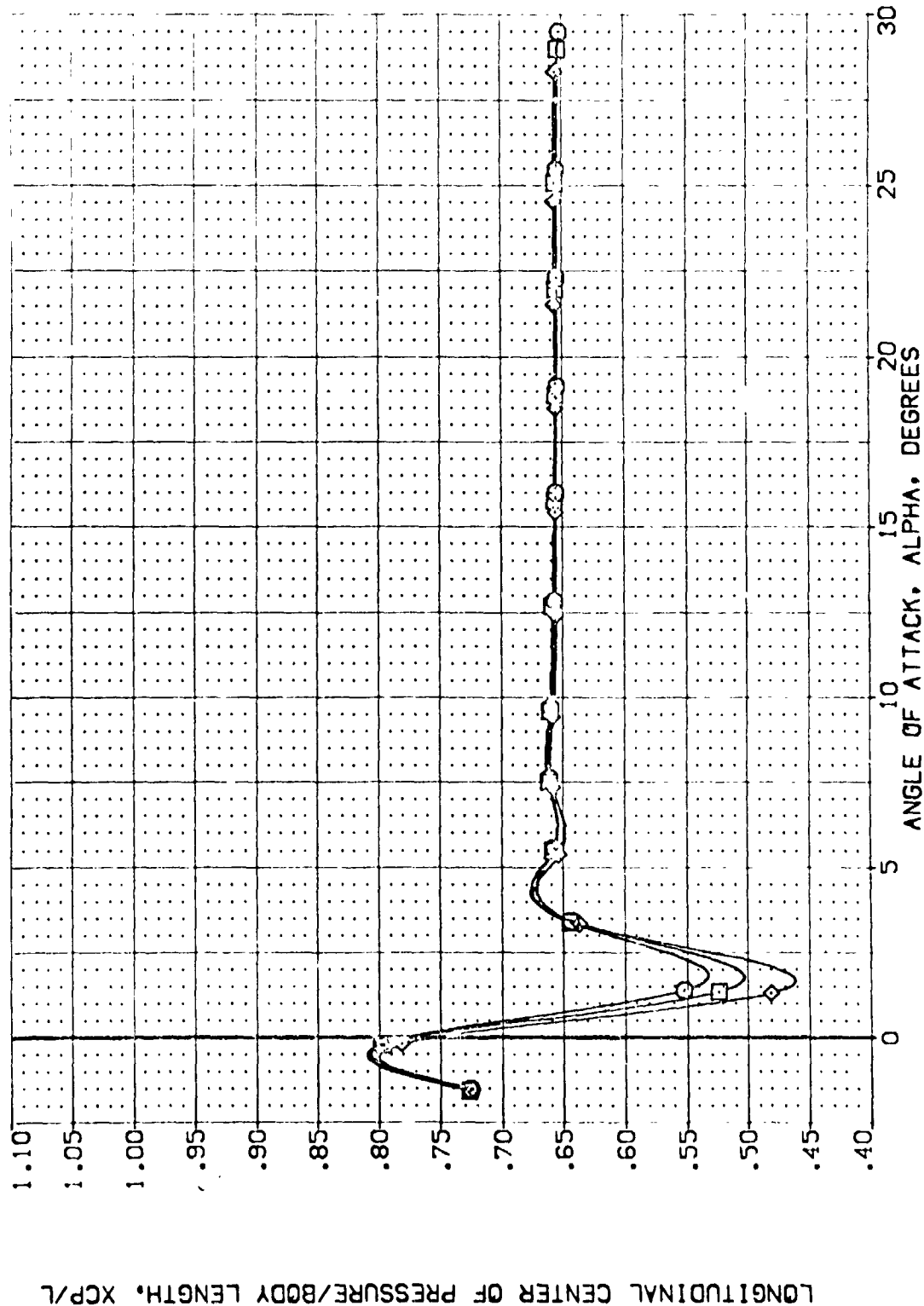


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPODBK	REFERENCE INFORMATION
1.0020	ARC 97-747 D4503 B C M F V2 V	.000	.000	.000	55.000	SREF 2.4210 SQ.FT.
1.016	ARC 97-747 D4503 B C M F V1 V	.000	.000	.000	55.000	LREF 14.2040 IN.
						BREF 20.0001 IN.
						XPREF 32.5310 IN.
						YPROP .0000 IN.
						ZPROP 11.4000 IN.
						SCALE .0000

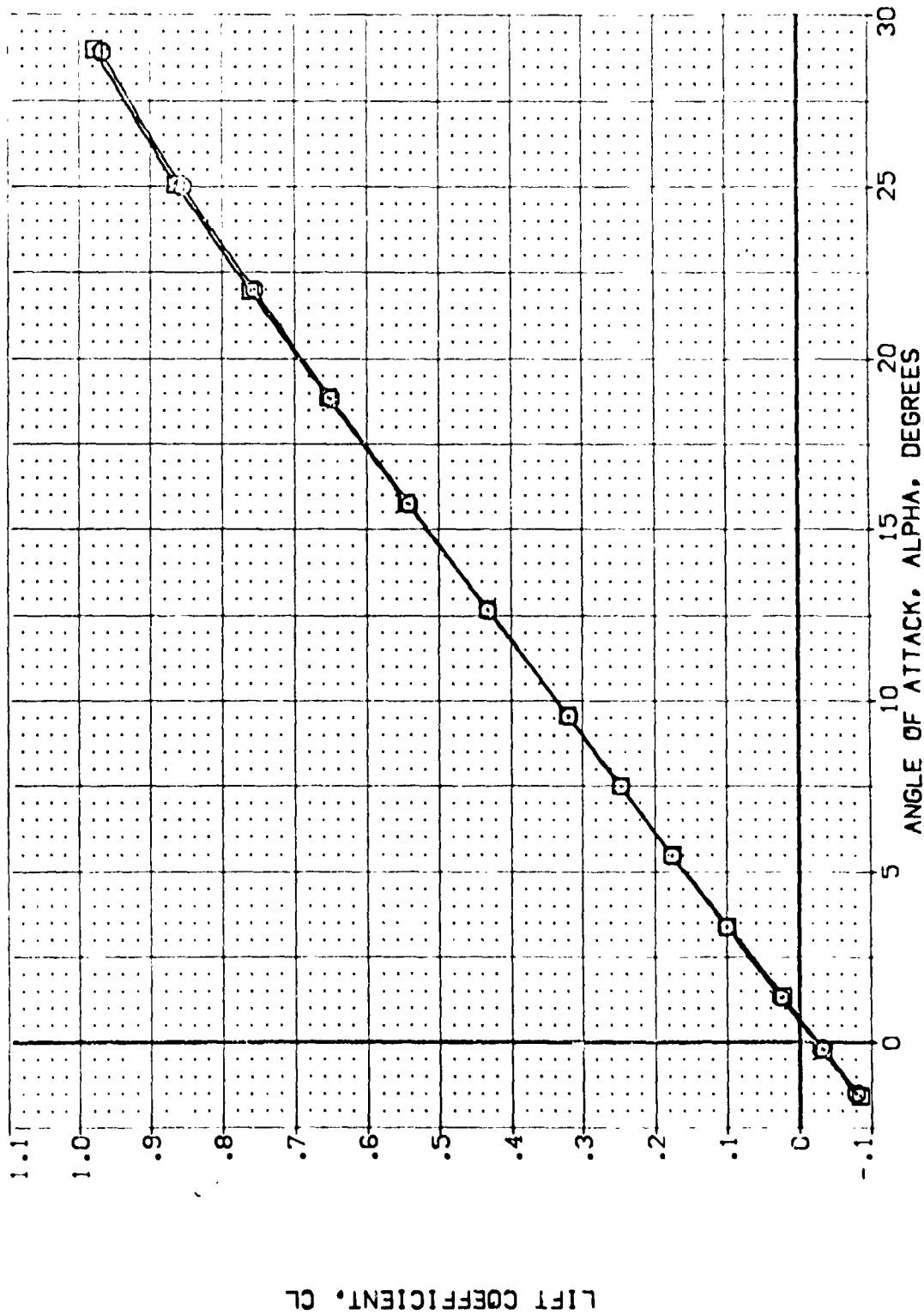


FIG. 6 WING MATRIX

(B)MACH = 2.00

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
{ TEND028 }	ARC 97-747 DAS38 B C M F V2 V	.000	.000	.000	55.000	SREF 2.4210
{ TEND16 }	ARC 97-747 DAS38 B C M F V1 V	.000	.000	.000	55.000	LREF 14.2440
						BRF 28.1000
						YMRP 32.5010
						ZMRP 11.2000
						SCALE .0000
						SO. FT. IN.

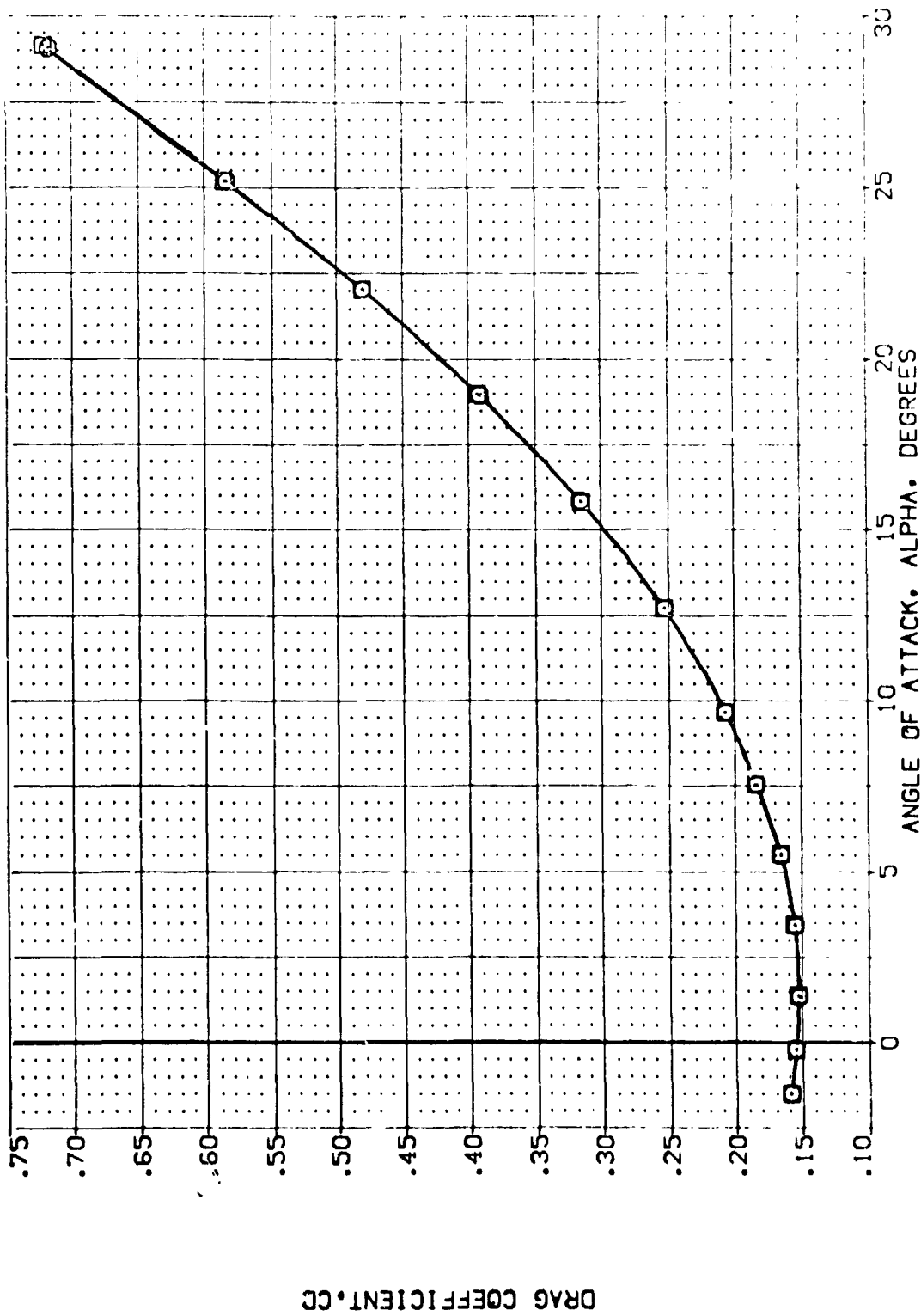


FIG. 6 WING MATRIX
(MACH = 1.60)

DATA SET SYMBOL		CONFIGURATION DESCRIPTION				ELEVON		AILLON		BOFLAP		SPOBRK		REFERENCE INFORMATION			
[1EK029]		ARC 97-747 04533 B C M F V2 V				.000		.000		.000		55.000		SPREF 2.4210			
[1EK016]		ARC 97-747 04533 B C M F V1 V				.000		.000		.000		55.000		LREF 14.2440			
														BRF 32.1000			
														XMR 32.1000			
														YMR 11.0000			
														ZMR 11.0000			
														SCALE .0000			

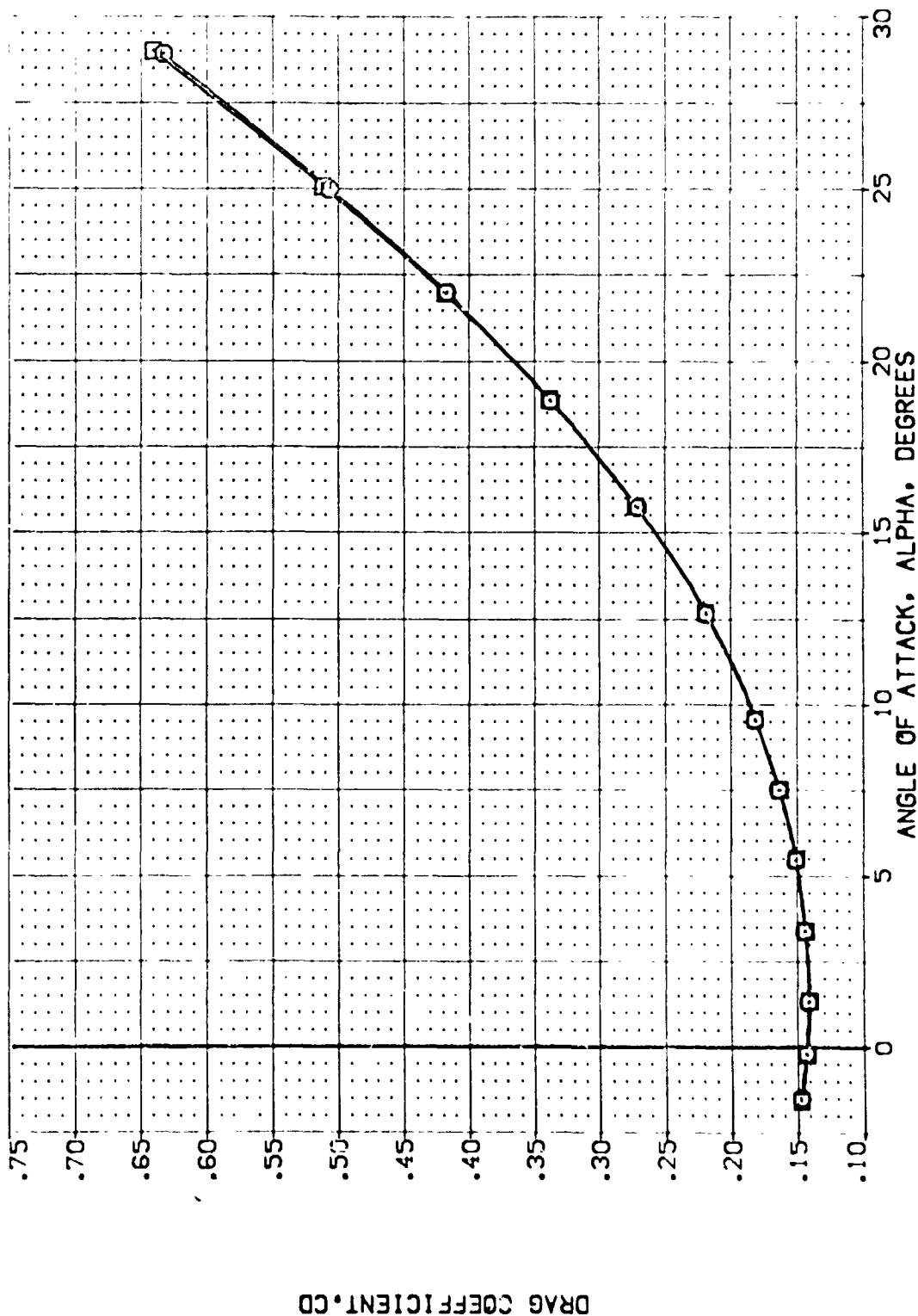


FIG. 6 WING MATRIX

(B)MACH = 2.00

DATA SET SYMBOL (TERMO28) (TERMO16)

CONFIGURATION DESCRIPTION
 ARC 97-747 BAS39 B C M F V2 V NOM. RNVL
 ARC 97-747 BAS39 B C M F V1 V NOM. RNVL

ELEVON .000 .000
 AILRON .000 .000
 BDF LAP .000 .000
 SPOBRK 55.000 55.000

REFERENCE INFORMATION
 SREF 2.4210 50. FT.
 LREF 14.2440 IN.
 BREF 28.1000 IN.
 XMAP 32.1010 IN.
 YMAP 0.0000 IN.
 ZMAP 11.2000 IN.
 SCALE .0000 SCALE

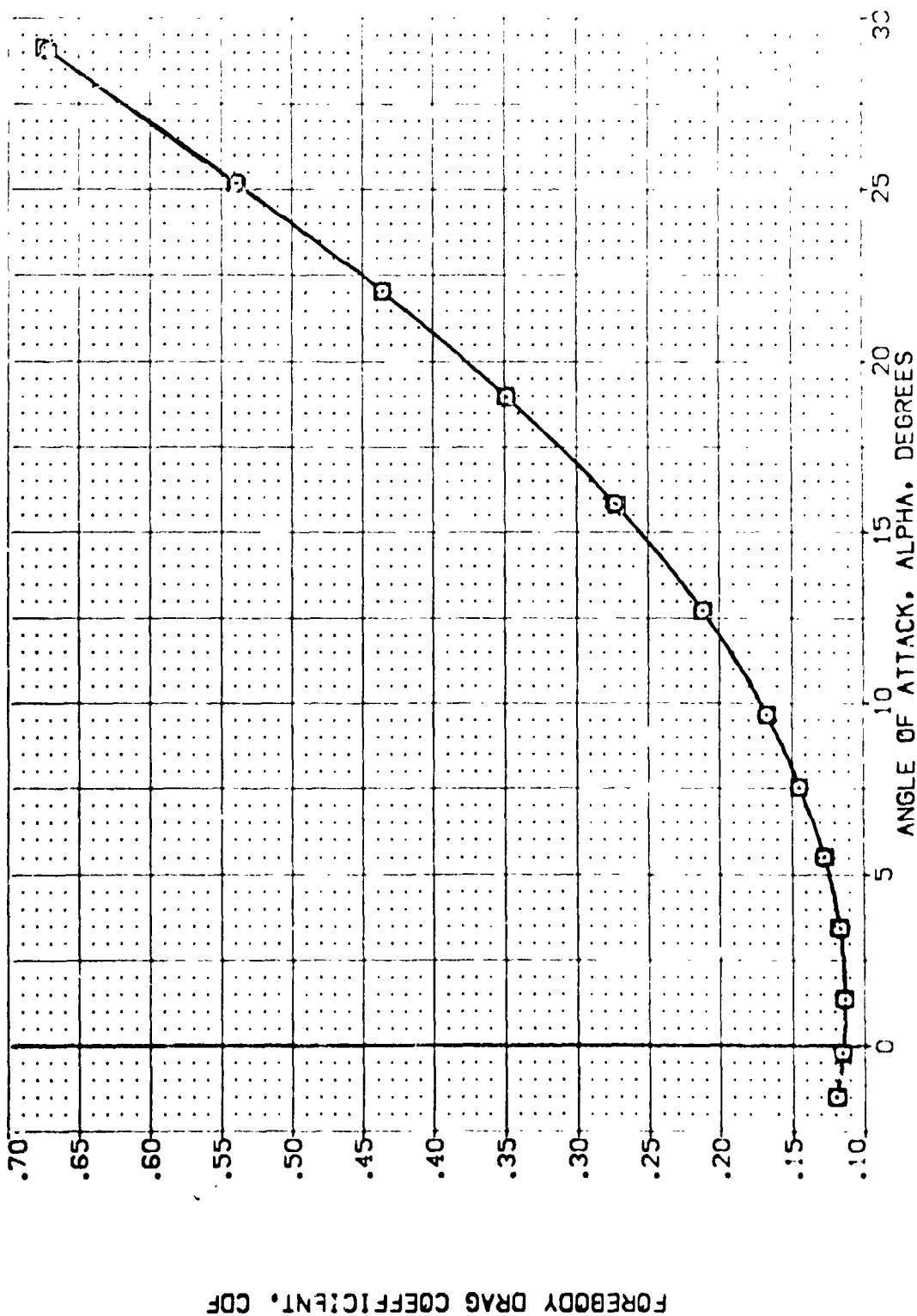


FIG. 6 WING MATRIX

(M)MAC = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	BDFLAP	SPOILER	REFERENCE INFORMATION
(JEX0000)	APC 97-747 D/S23 B C M F V2 V	.000	.000	55.000	SPR 2.4210
(JEX0000)	APC 97-747 CASES B C M F V1 V	.000	.000	55.000	LR 14.1000
					EC 29.1000
					Y 32.0000
					Z 11.2000
					SCALE .0000

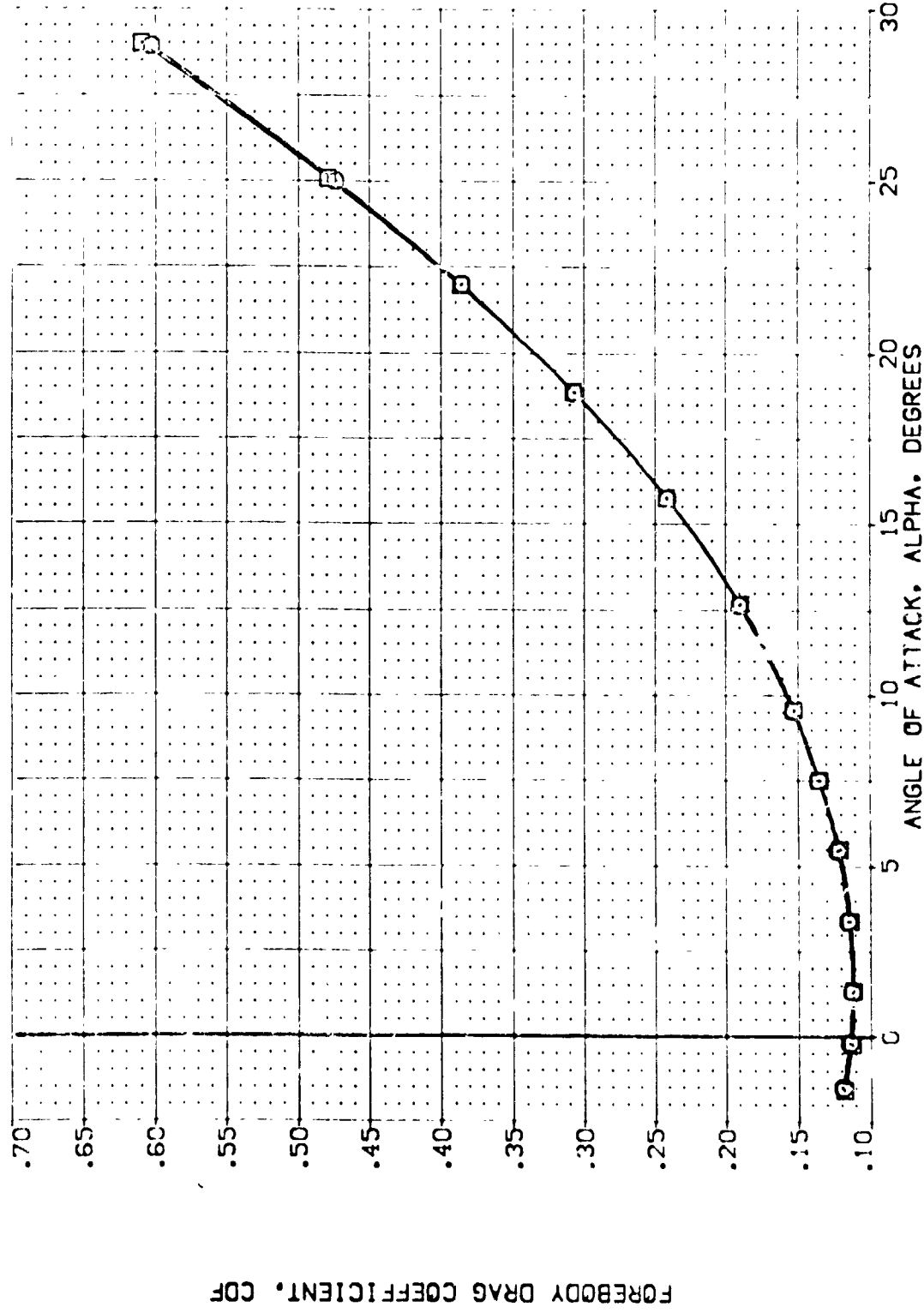


FIG. 6 WING MATRIX

(B) MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[TEK028] ARC 97-747 DAS38 B C M F V2 V NOM. RVL
[TEK016] ARC 97-747 DAS38 B C M F V1 V NOM. RVL

ELEVON AILRON BOFLAP SPOBRK

.000 .000 .000 .000
.000 .000 .000 .000

REFERENCE INFORMATION

SREF 2.4210 SQ. FT.
LREF 14.2440 IN.
BREF 20.1000 IN.
VMREF 32.2310 IN.
VMREF 11.2500 IN.
SCALE .0003

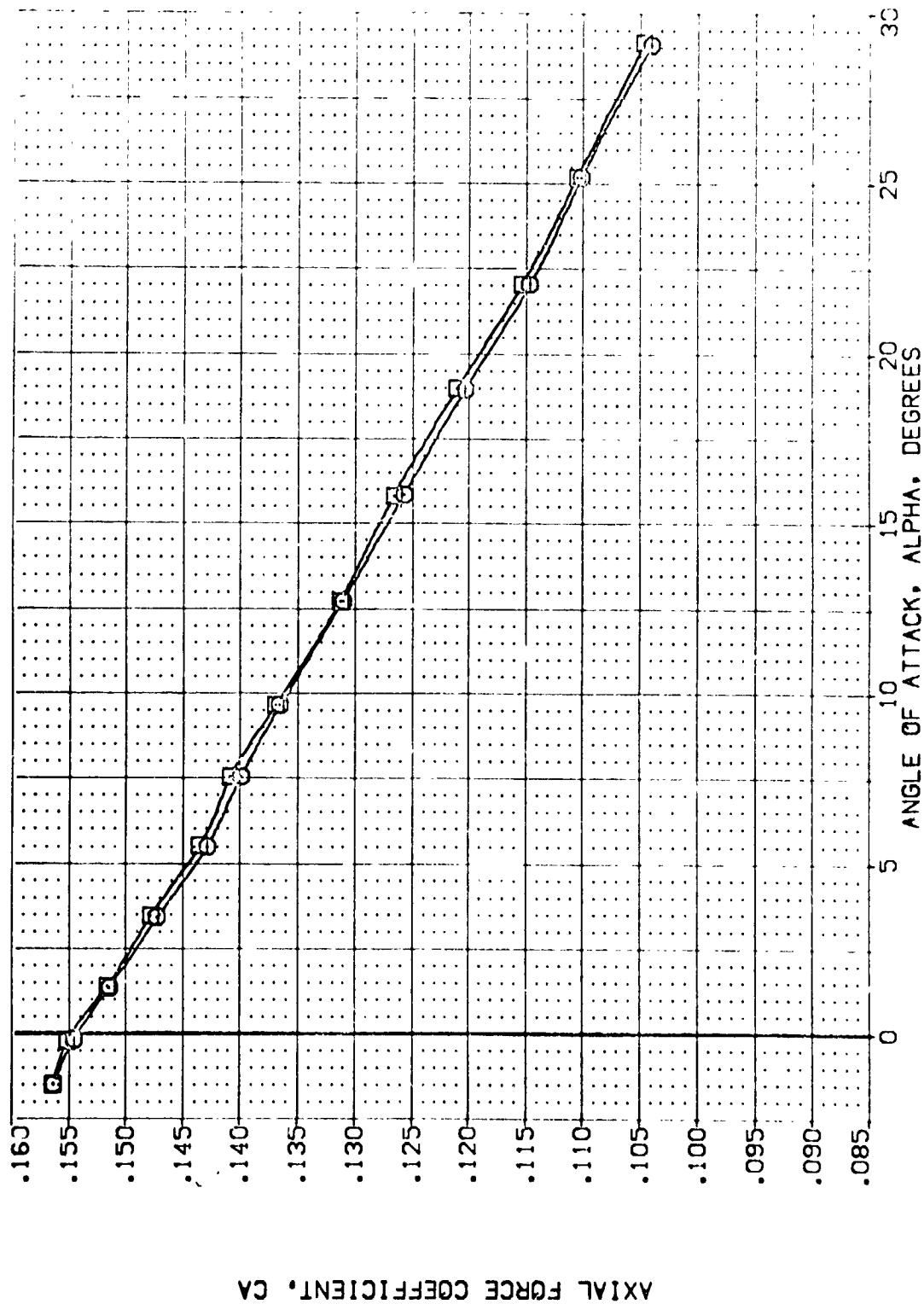


FIG. 6 WING MATRIX

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOILER	REFERENCE INFORMATION
{TEK028}	ARC 97-747 BA533 B C M F V2 V	.000	.000	.000	55.000	SREF 2.4210 SC.FT.
{TEK016}	ARC 97-747 CA533 B C M F V1 V	.000	.000	.000	55.000	LBREF 14.7440 IN.
						BBREF 23.1004 IN.
						WREF 32.5010 IN.
						WREF 5.0000 IN.
						ZREF 11.2500 IN.
						SCALE 1.0000

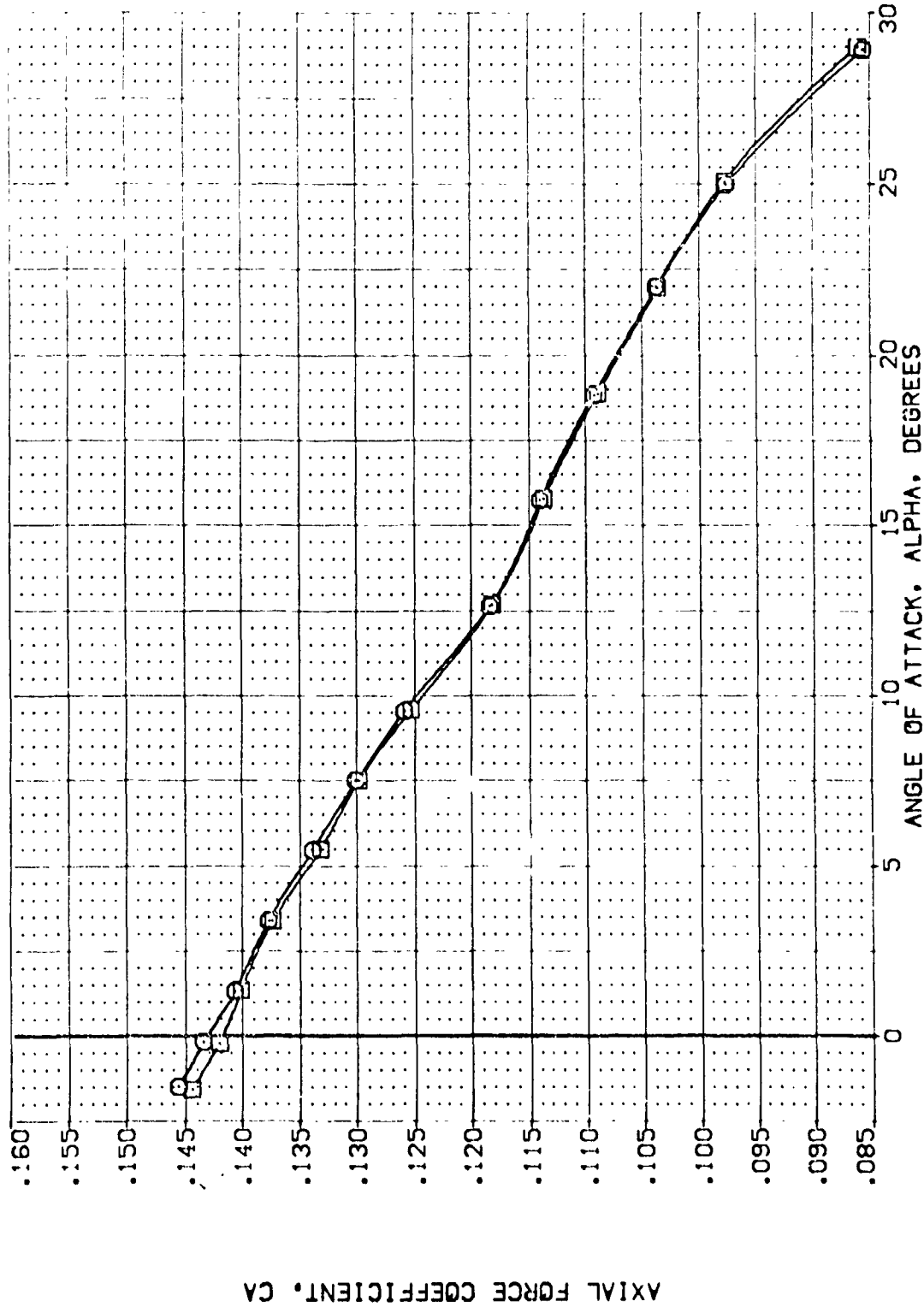


FIG. 6 WING MATRIX

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AIRLIFT	BDF LAP	SPOOR	REFERENCE INFORMATION
(TEK028)	ARC 97-747 DAS38 B C M F V2 V	.000	.000	.000	55.000	SREF 2.4210
(TEK016)	ARC 97-747 DAS38 B C M F V1 V	.000	.000	.000	55.000	LREF 14.2440
						BSREF 28.1004
						XPREF 32.3010
						YMP 0.0000
						ZMP 11.2500
						SCALE .0500

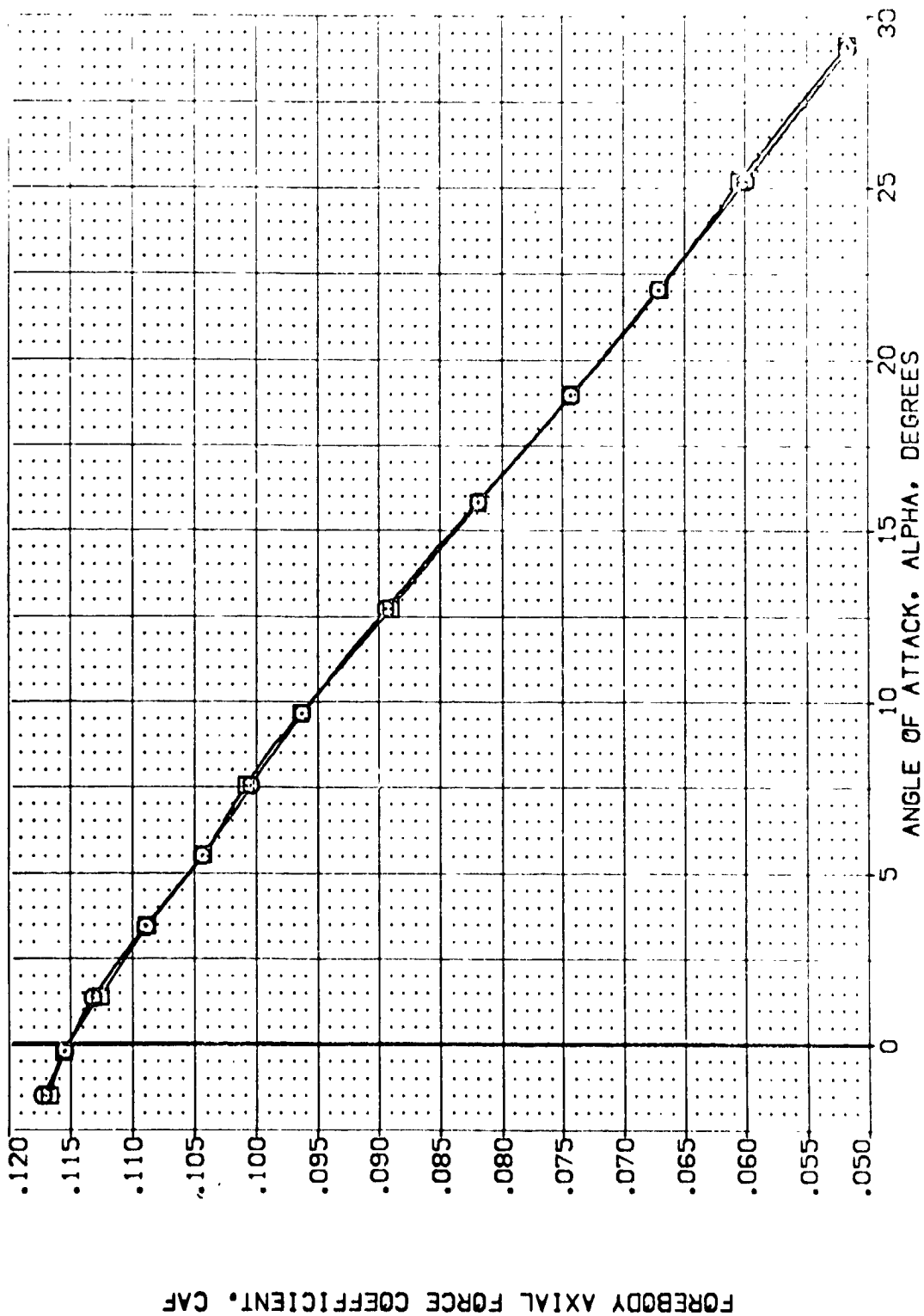


FIG. 6 WING MATRIX

(M)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	ATTITUDE	BOFLAP	SPOILER	REFERENCE INFORMATION
[TEK023]	ARC 97-747 04-533 B C M F V2 V	.000	.000	.000	55.000	SREF 2.4210 50.000
[TEK016]	ARC 97-747 04-533 B C M F V1 V	.000	.000	.000	55.000	LRCP 14.2440 IN.
						BRCP 23.1004 IN.
						YMRP 32.5010 IN.
						ZMRP .0000 IN.
						SCALE 11.2500 IN.
						SCALE .0000

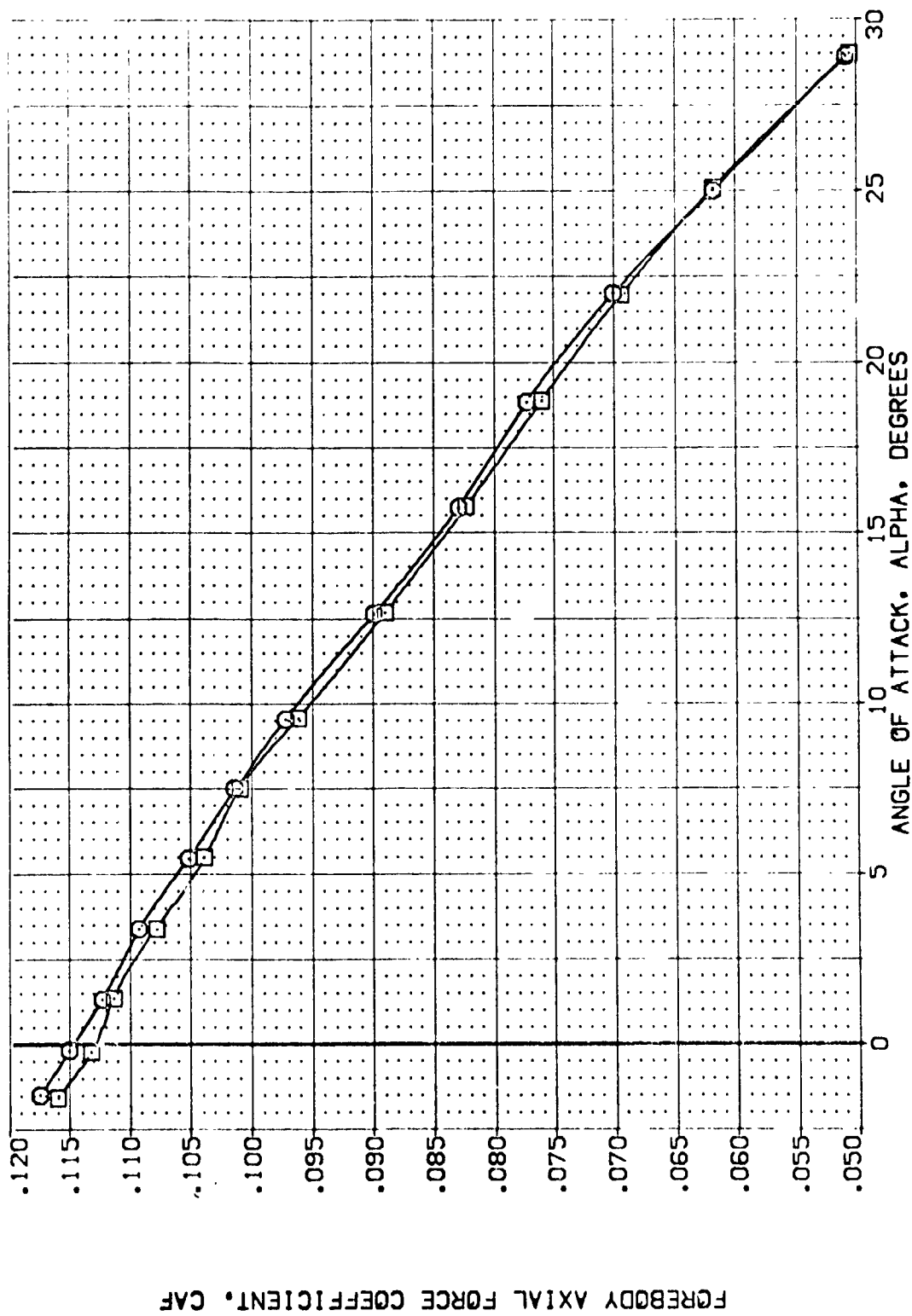


FIG. 6 WING MATRIX
(B)MACH = 2.00

BASE AXIAL FORCE COEFFICIENT, CAB

DATA SET SYMBOL		CONFIGURATION DESCRIPTION				ELEVON		AILLON		BOFLAP		SPOBRK		REFERENCE INFORMATION			
{ TEND028 }	ARC 97-747	DA528	B	C	M	F	V2	V	NOM.	RAVL	.000	.000	.000	SREF	2.4210	50. FT.	
{ TEND016 }	ARC 97-747	DA533	B	C	M	F	V1	V	NOM.	RAVL	.000	.000	.000	LREF	14.2440	IN.	
														EREF	20.1034	IN.	
														XMCP	32.0310	IN.	
														YMCP	0.0000	IN.	
														ZMCP	11.2600	IN.	
														SCALE	.0000	SCALE	

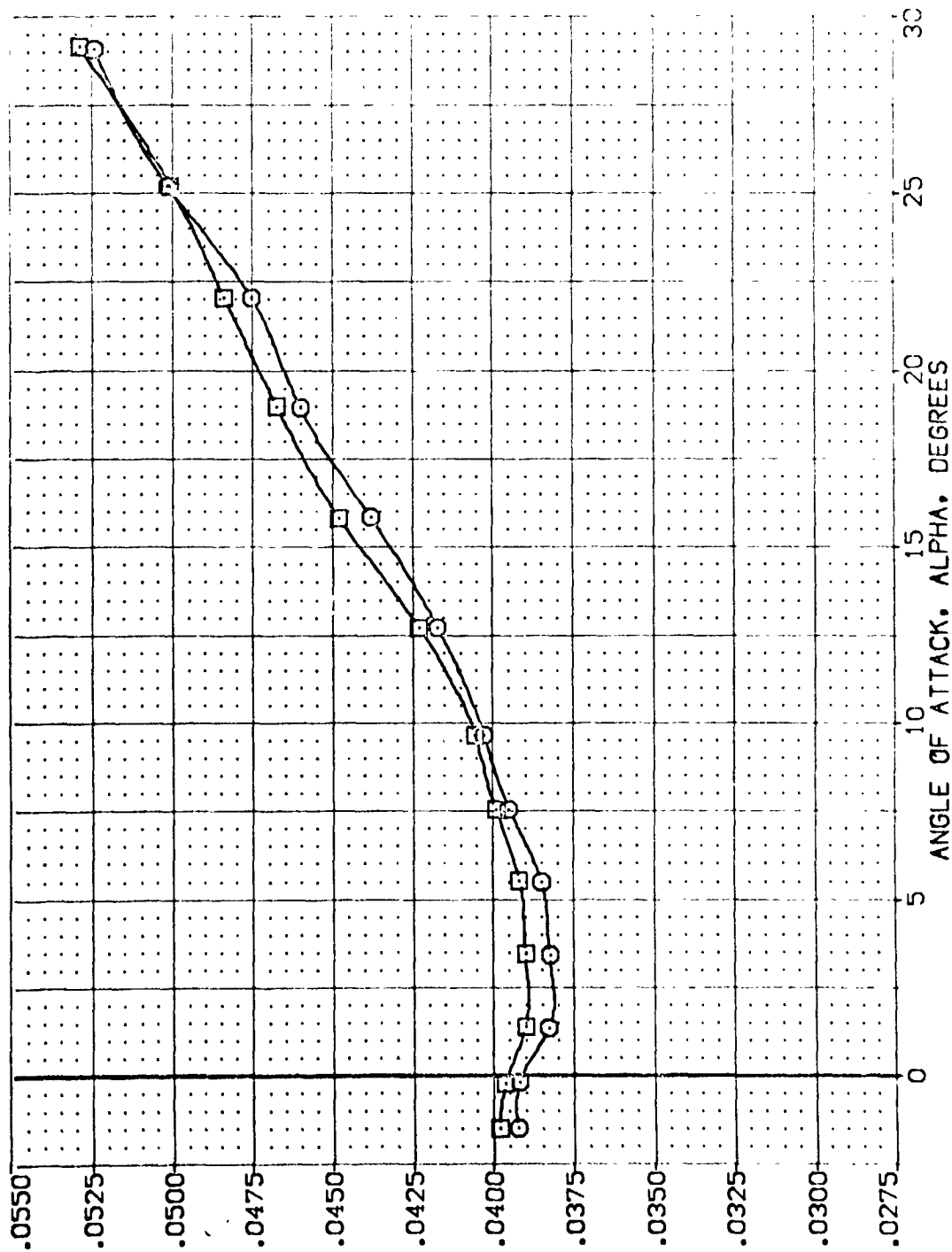
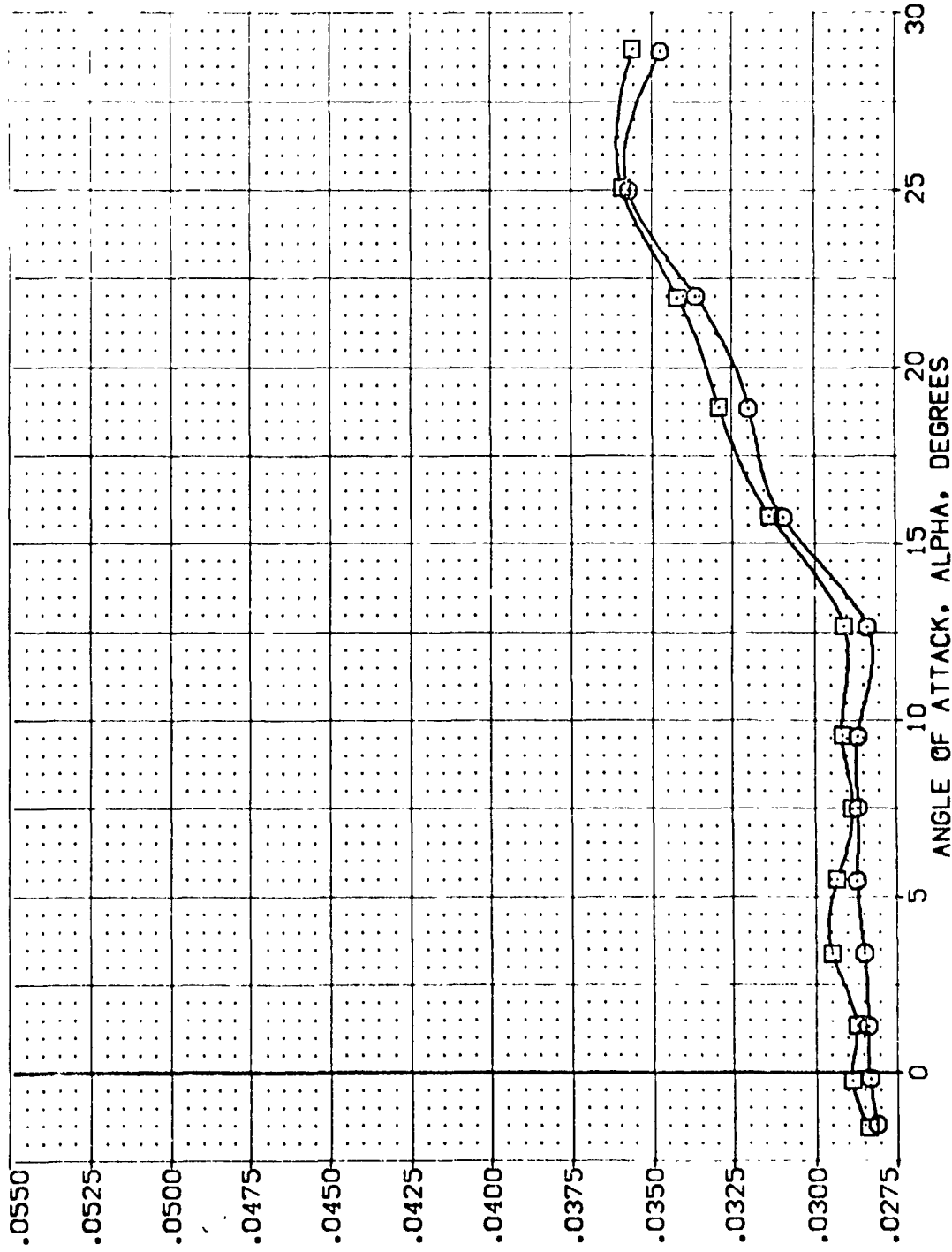


FIG. 6 WING MATRIX

(M)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOORK	REFERENCE INFORMATION
{TEK028}	ARC 97-747 DA533 B C M F V2 V	.000	.000	.000	55.000	SPREF 2.4210
{TEK016}	ARC 97-747 DA503 B C M F V1 V	.000	.000	.000	55.000	LCREF 14.2440
						LCREF 20.1034
						LCREF 32.0310
						YMPD .0000
						ZMPD 11.2500
						SCALE .0000



BASE AXIAL FORCE COEFFICIENT, CAB

FIG. 6 WING MATRIX

(B)MACH = 2.00

NORMAL FORCE COEFFICIENT, CN

DATA SET SYMBL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPODBRK	REFERENCE INFORMATION
[TERO28]	ARC 97-747 BAS38 B C M F V2 V	.000	.000	.000	55.000	SREF 2.4210 50. FT.
[TERO16]	ARC 97-747 BAS38 B C M F V1 V	.000	.000	.000	55.000	LREF 14.2440 IN.
						BREF 29.1004 IN.
						XMRP 32.0010 IN.
						YMRP .0000 IN.
						ZMRP 11.2500 IN.
						SCALE .0000

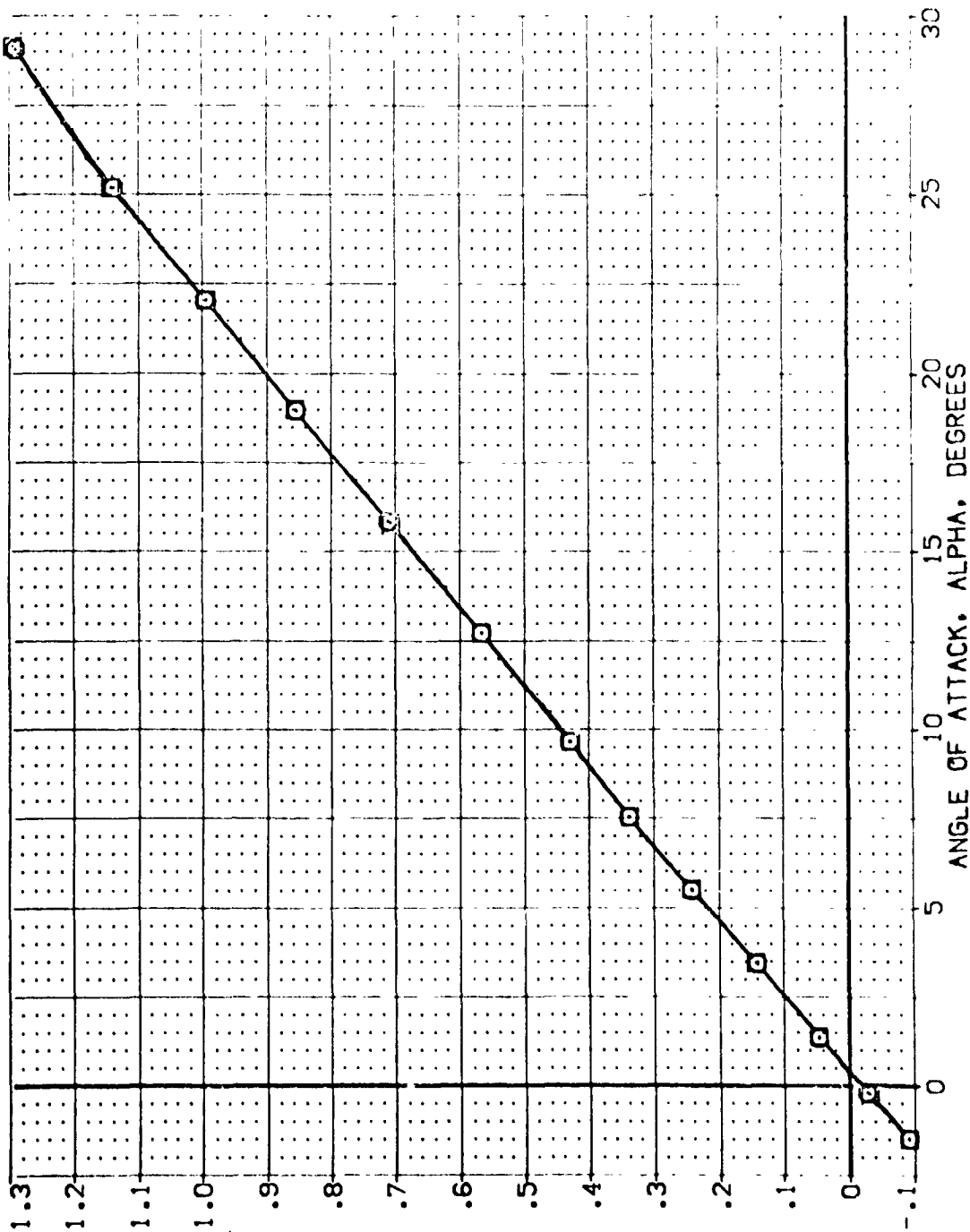


FIG. 6 WING MATRIX

[A]MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AIRLIFT	BOFLAP	SPODBK	REFERENCE INFORMATION
(TEK028)	ARC 97-747 DAS33 B C M F V2 V	.000	.000	.000	55.000	SREF 2.4210 50. FT.
(TEK016)	ARC 97-747 DAS33 B C M F V1 V	.000	.000	.000	55.000	LREF 14.2240 IN.
						DREF 28.1034 IN.
						XREF 52.0210 IN.
						YREF 11.2500 IN.
						ZREF .0300 IN.
						SCALE

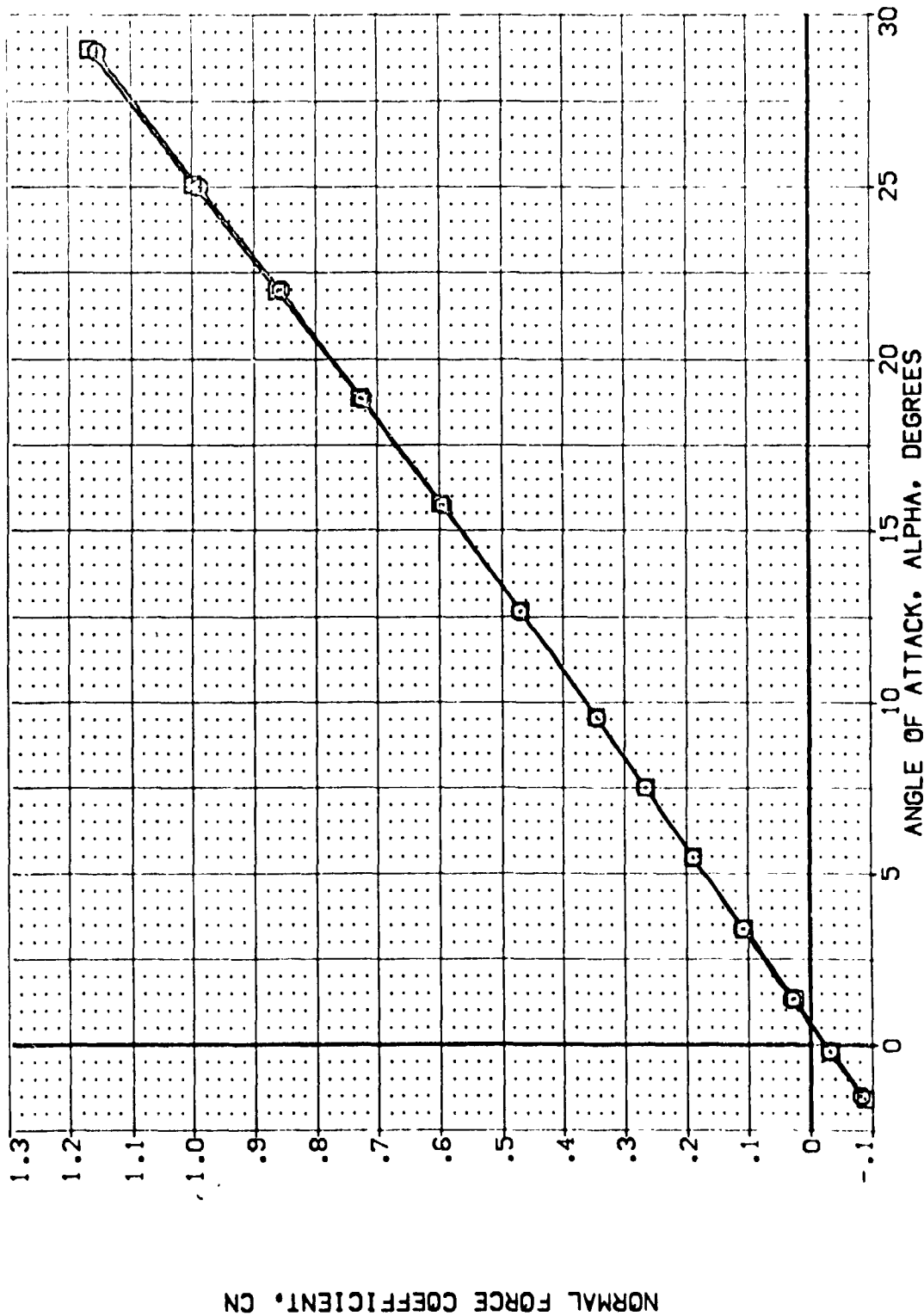


FIG. 6 WING MATRIX

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BDF/LAP	SPOBRK	REFERENCE INFORMATION
(TEK0078)	ARC 97-747 0A538 B C M F V2 V	.000	.000	.000	55.000	SREF 2.4210
(TEK016)	ARC 97-747 0A538 B C M F V1 V	.000	.000	.000	55.000	LREF 14.2440
						BREF 28.1004
						XMREF 32.5010
						YMREF 0.0000
						ZMREF 11.2500
						SCALE .0000

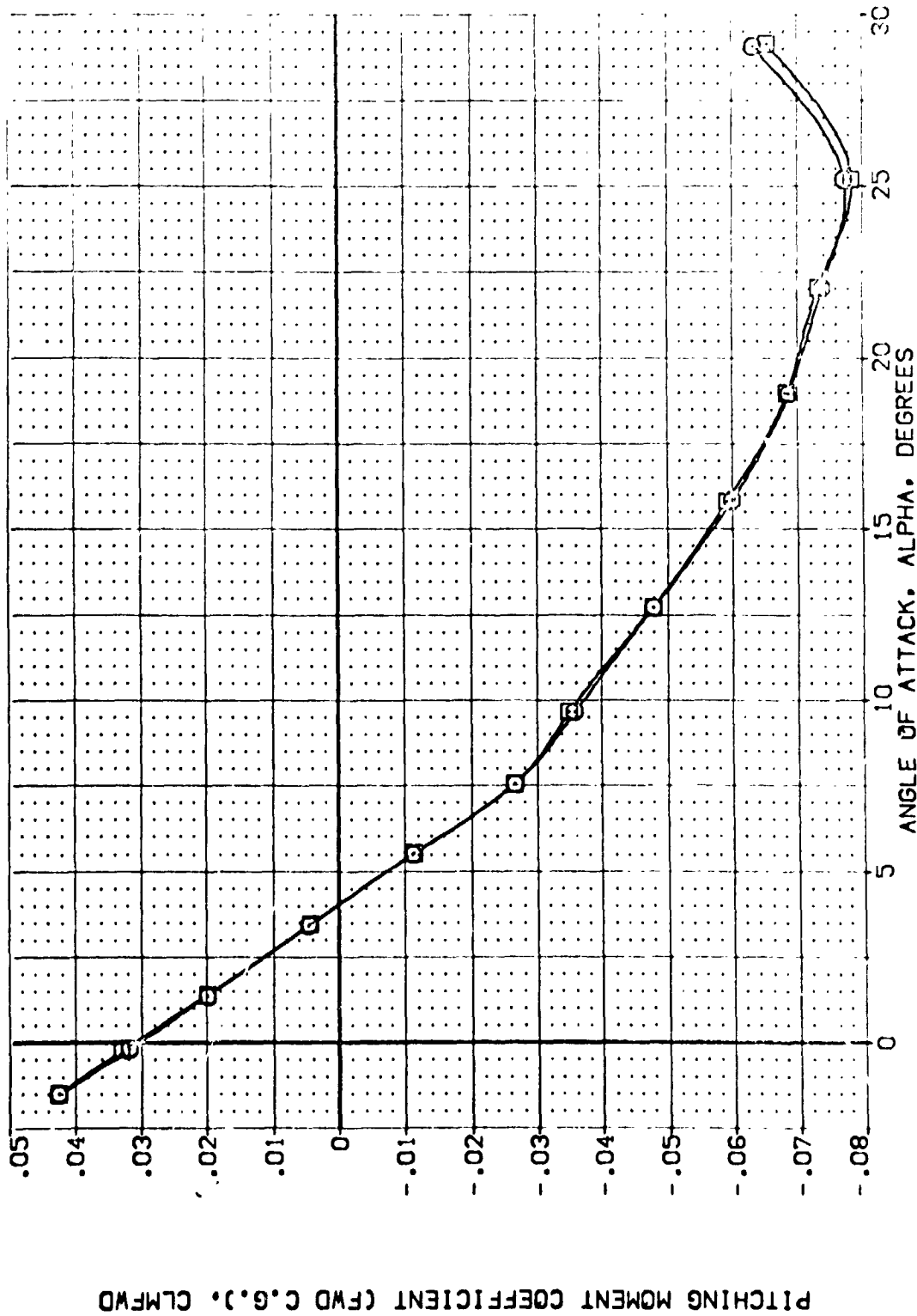
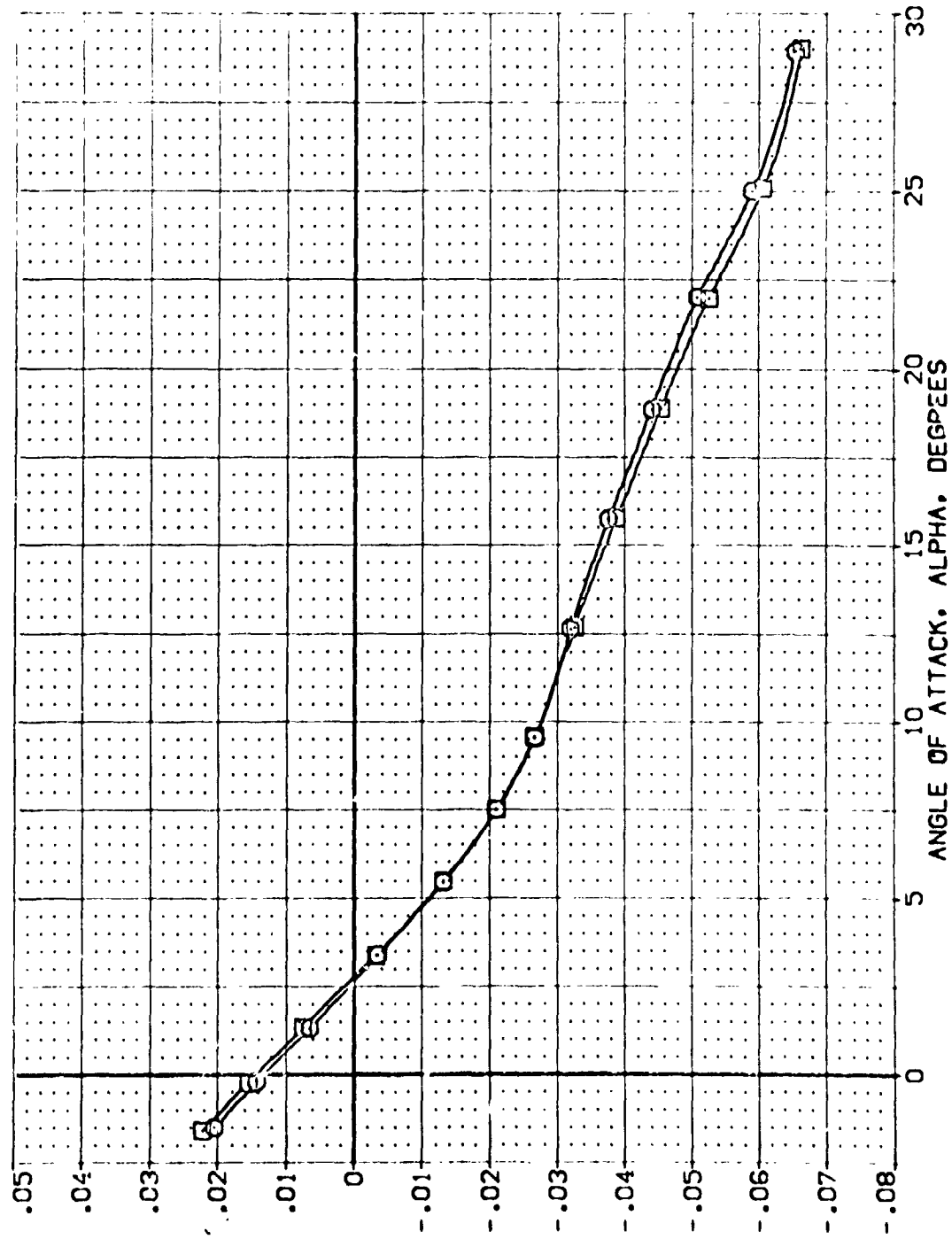


FIG. 6 WING MATRIX

(M)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOILER	REFERENCE INFORMATION
(TEM029)	ARC 97-747 CAS33 B C M F V2	.000	.000	.000	55.000	SREF 2.4210 SQ.FT.
(TEM016)	ARC 97-747 CAS33 B C M F V1	.000	.000	.000	55.000	LREF 14.2440 IN.
						EREF 28.1004 IN.
						XREF 32.0310 IN.
						YREF .0000 IN.
						ZREF 11.2500 IN.
						SCALE .0000



PITCHING MOMENT COEFFICIENT (FWD C.G.), CL_{MFW}

FIG. 6 WING MATRIX

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILEON	BOFLAP	SPDRK	REFERENCE INFORMATION
(TEND28)	ARC 97-747 OAS38 B C H F V2 V	.000	.000	.000	55.000	SREF 2.4210
(TEND16)	ARC 97-747 OAS38 B C H F V1 V	.000	.000	.000	55.000	LREF 14.2440
						LMREF 28.1004
						XMREF 32.5010
						YMREF .0000
						ZMREF 11.2000
						SCALE .0000

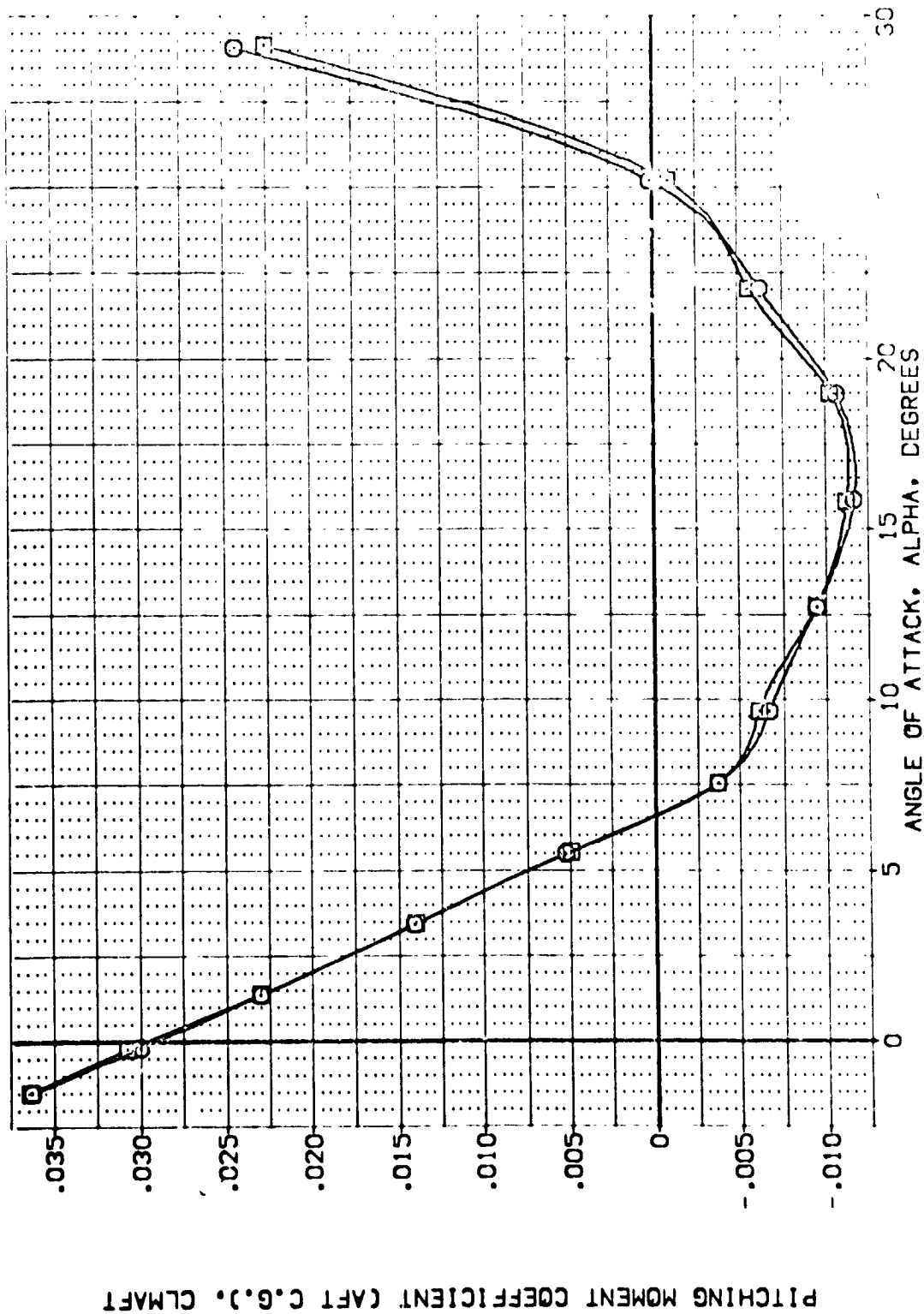
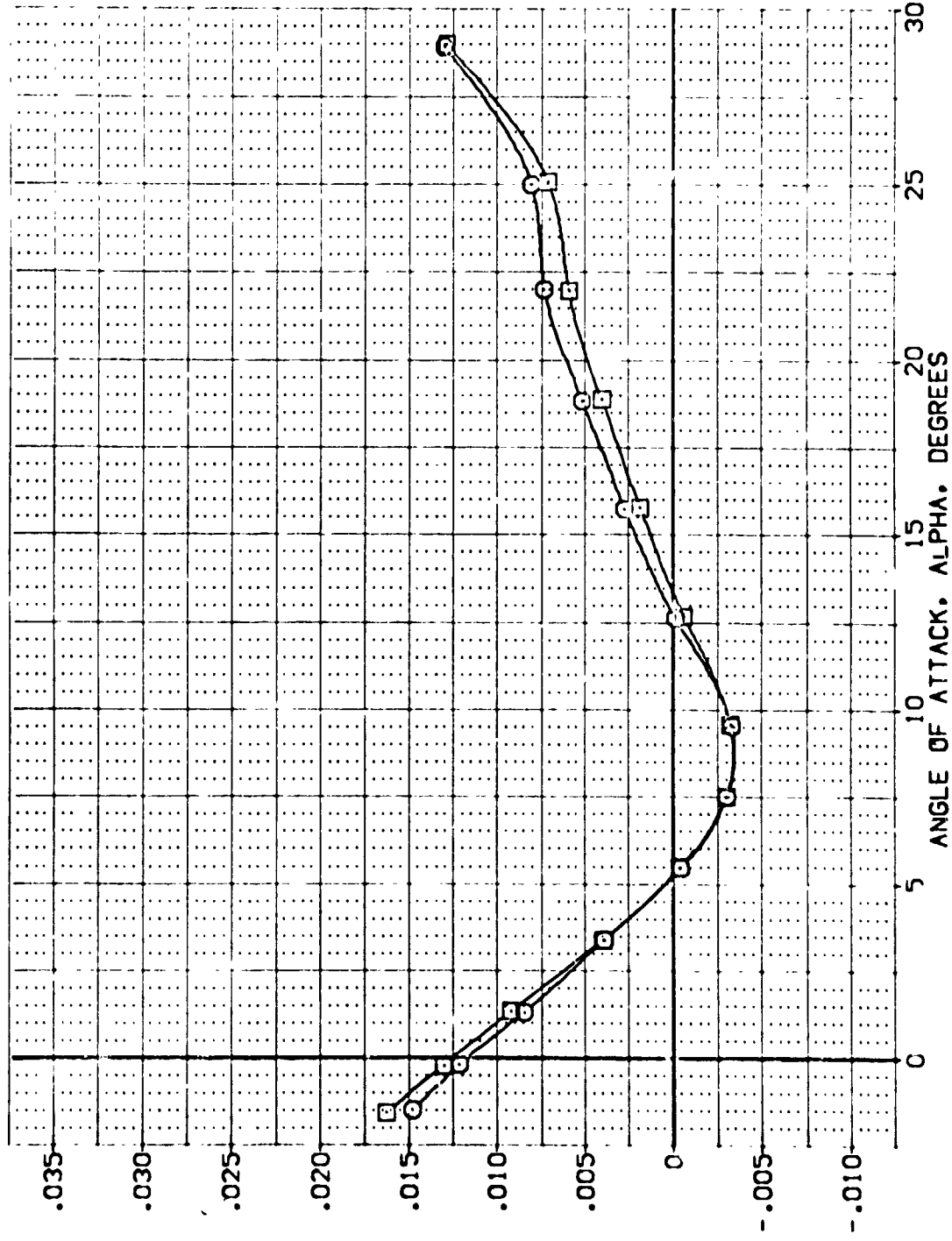


FIG. 6 WING MATRIX

(M)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOILER	REFERENCE INFORMATION
(TEK028)	ARC 97-747 24539 B C M F V2 V	.000	.000	.000	55.000	SREF 2.4210 SQ.FT.
(TEK016)	ARC 97-747 24533 B C M F V1 V	.000	.000	.000	55.000	LSREF 14.2200 IN.
						BSREF 28.1004 IN.
						XREF 27.0310 IN.
						YREF 0.0000 IN.
						ZREF 1.12000 IN.
						SCALE .0000



PITCHING MOMENT COEFFICIENT (AFT C.G.), CLM_AFT

FIG. 6 WING MATRIX

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	E. VON	AIRLON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEND16)	ARC 97-747 QAS38 B C H F V2 V	.000	.000	.000	55.000	SREF 2.4210 SQ. FT.
(TEND16)	ARC 97-747 QAS38 B C H F V1 V	.000	.000	.000	55.000	LREF 14.2140
						EXCF 23.1004
						XREF 32.5010
						YREF .0000
						ZREF 11.2500
						SCALE .0000

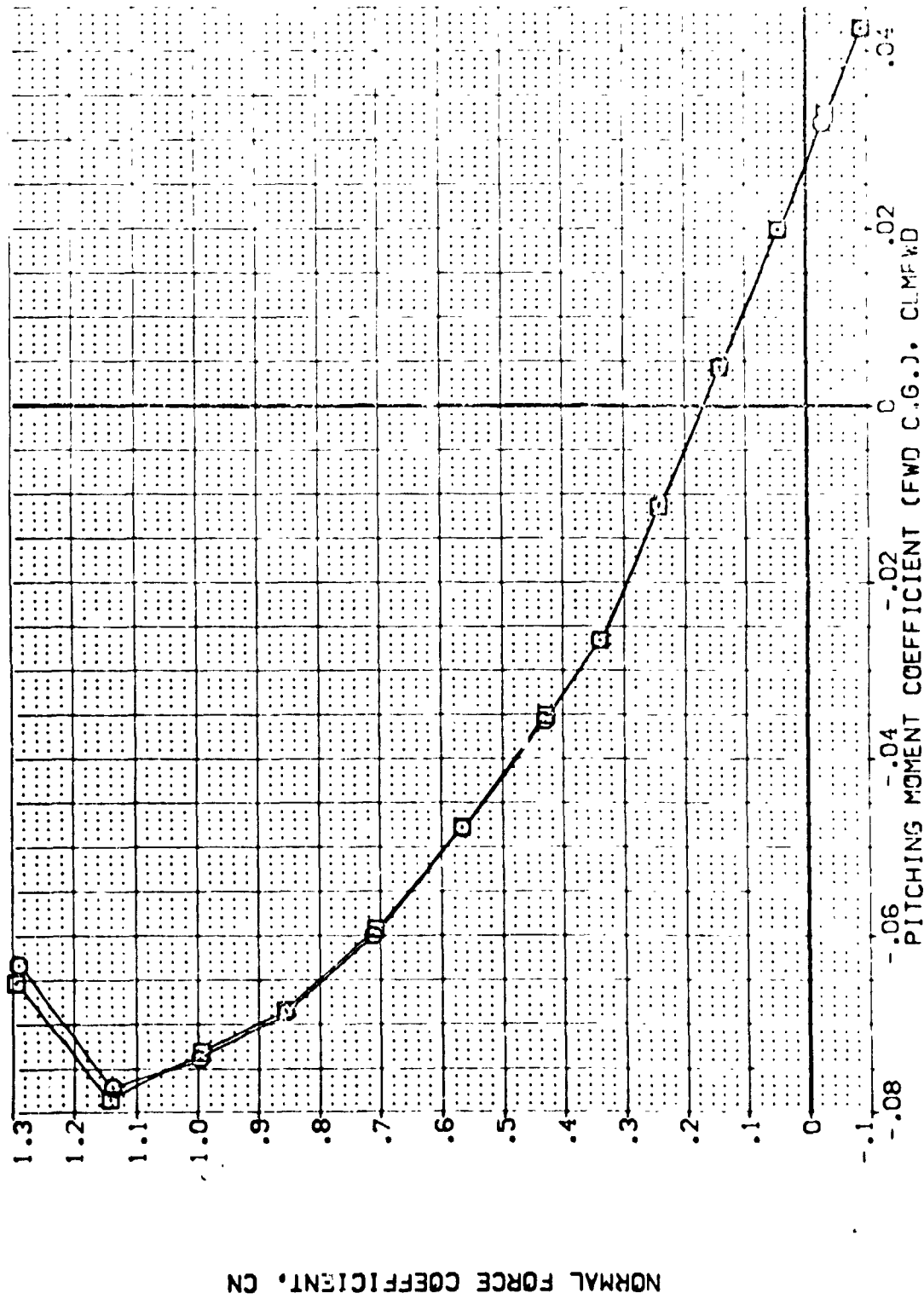


FIG. 6 WING MATRIX

(A)MACH = 1.60

DATA SET SYMBOL		CONFIGURATION DESCRIPTION				ELEVON		AILRON		BDFLAP		SPOBRK		REFERENCE INFORMATION			
ITEMQ28:	Q	ARC 97-747	QAS33	B	C	H	F	V2	V	NON:	RVNL			SREF	2.4210	50.FT.	
ITEMQ16:	Q	ARC 97-747	QAS33	B	C	H	F	V1	V	NON:	RVNL			TRF	14.24	IN.	
														CLAP	23.1000	IN.	
														YREF	22.0000	IN.	
														ZREF	11.0000	IN.	
														SCALE	11.0000	SCALE	

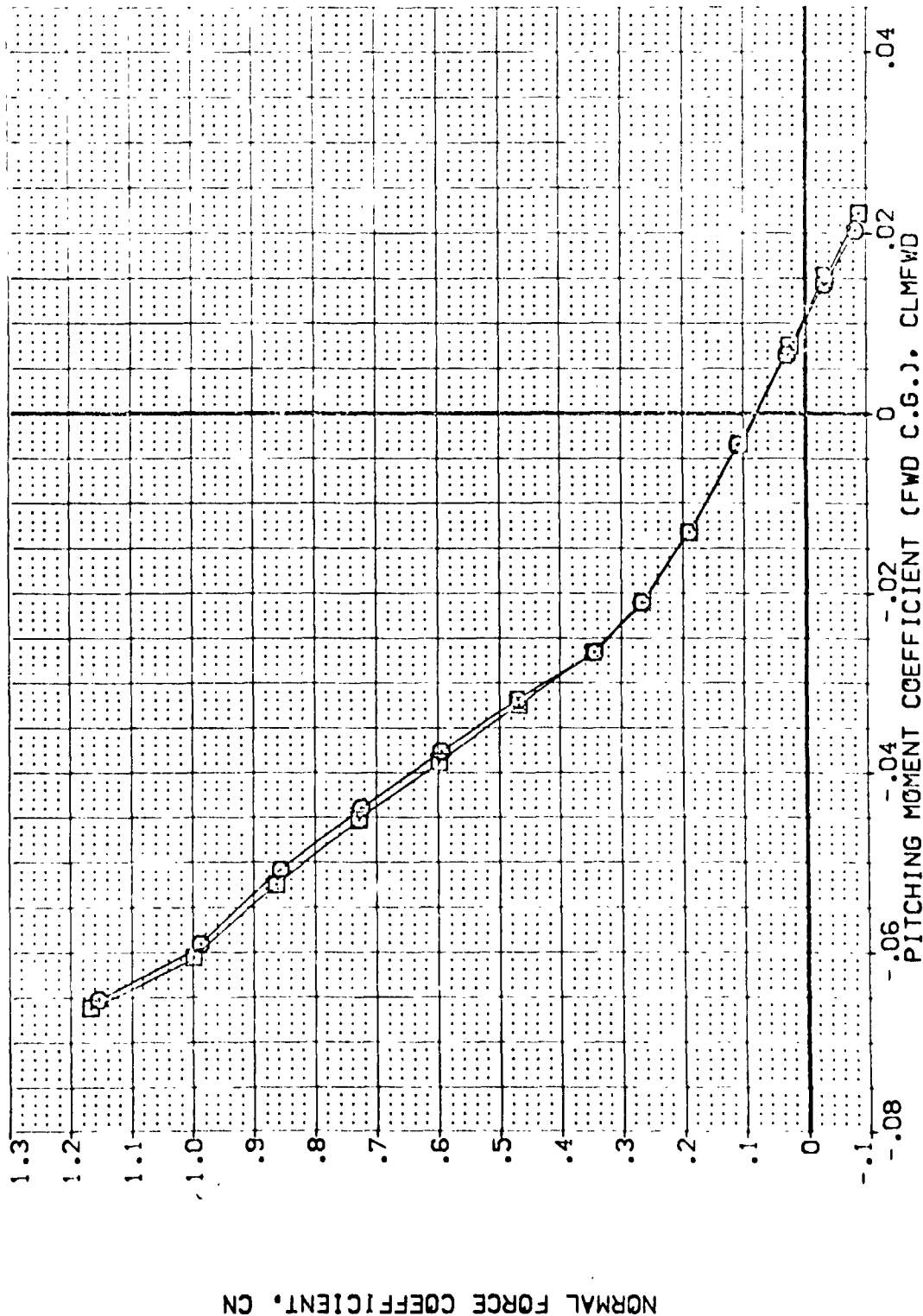


FIG. 6 WING MATRIX

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOILER	REFERENCE INFORMATION
(TEK028)	ARC 97-747 D4538 B C M F V2 V	.000	.000	.000	55.000	SREF 2.4210 50. FT.
(TEK016)	ARC 97-747 D4538 B C M F V1 V	.000	.000	.000	55.000	LREF 14.2443
						EXREF 23.1004
						YMRP 32.5210
						ZMRP .0000
						SCALE 11.2000
						SCALE

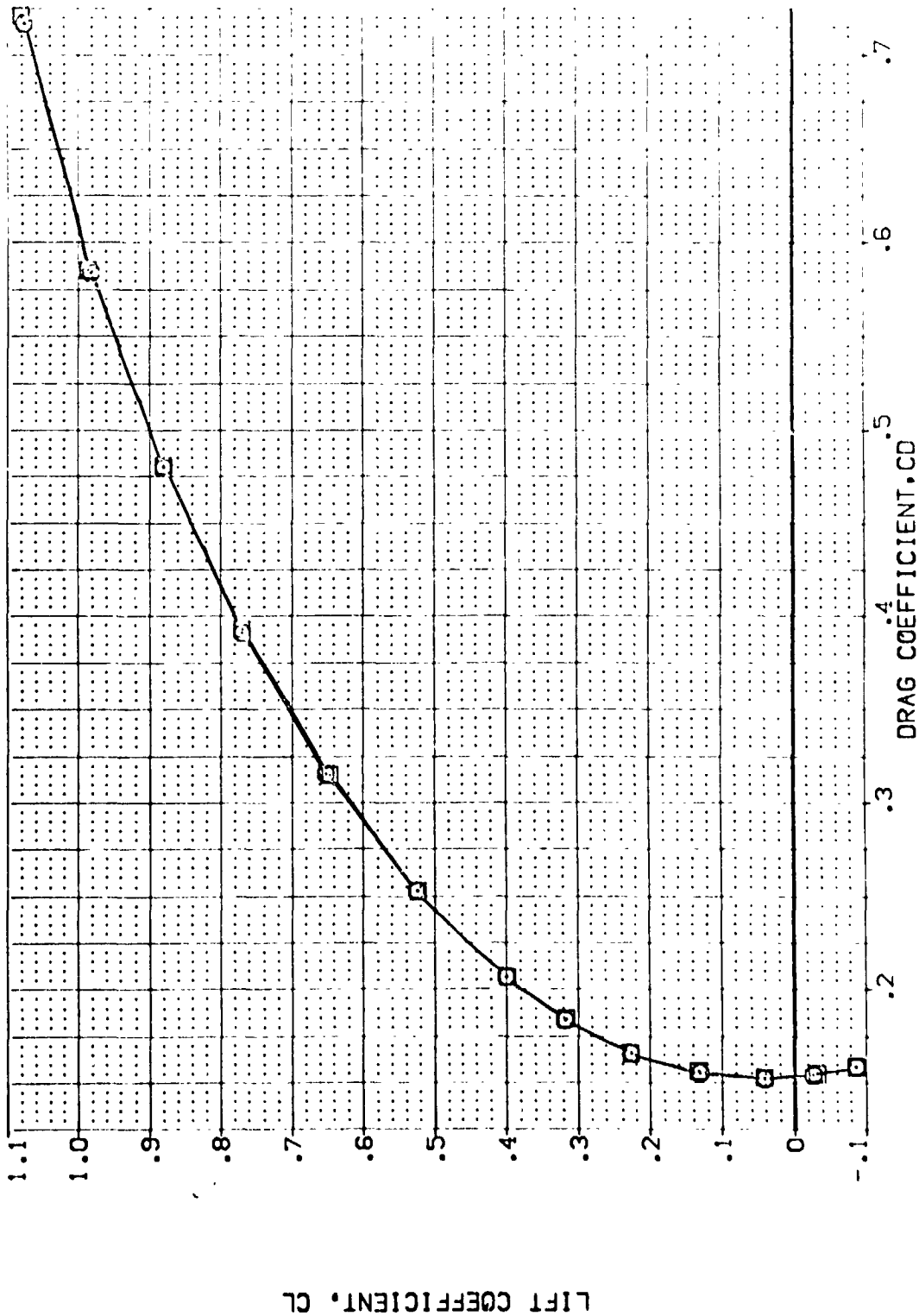


FIG. 6 WING MATRIX

(M)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AIRLIFT	BOE LIFT	SPDREF	REFERENCE INFORMATION
1000000	APC 97-747 0-500 B C M F V2 V	0.000	0.000	0.000	55.000	SPEED 2.4210 COEFF.
1000000	APC 97-747 0-500 B C M F V1 V	0.000	0.000	0.000	55.000	REF 14.2000
						REF 20.0000
						REF 32.0000
						REF 11.0000
						SCALE

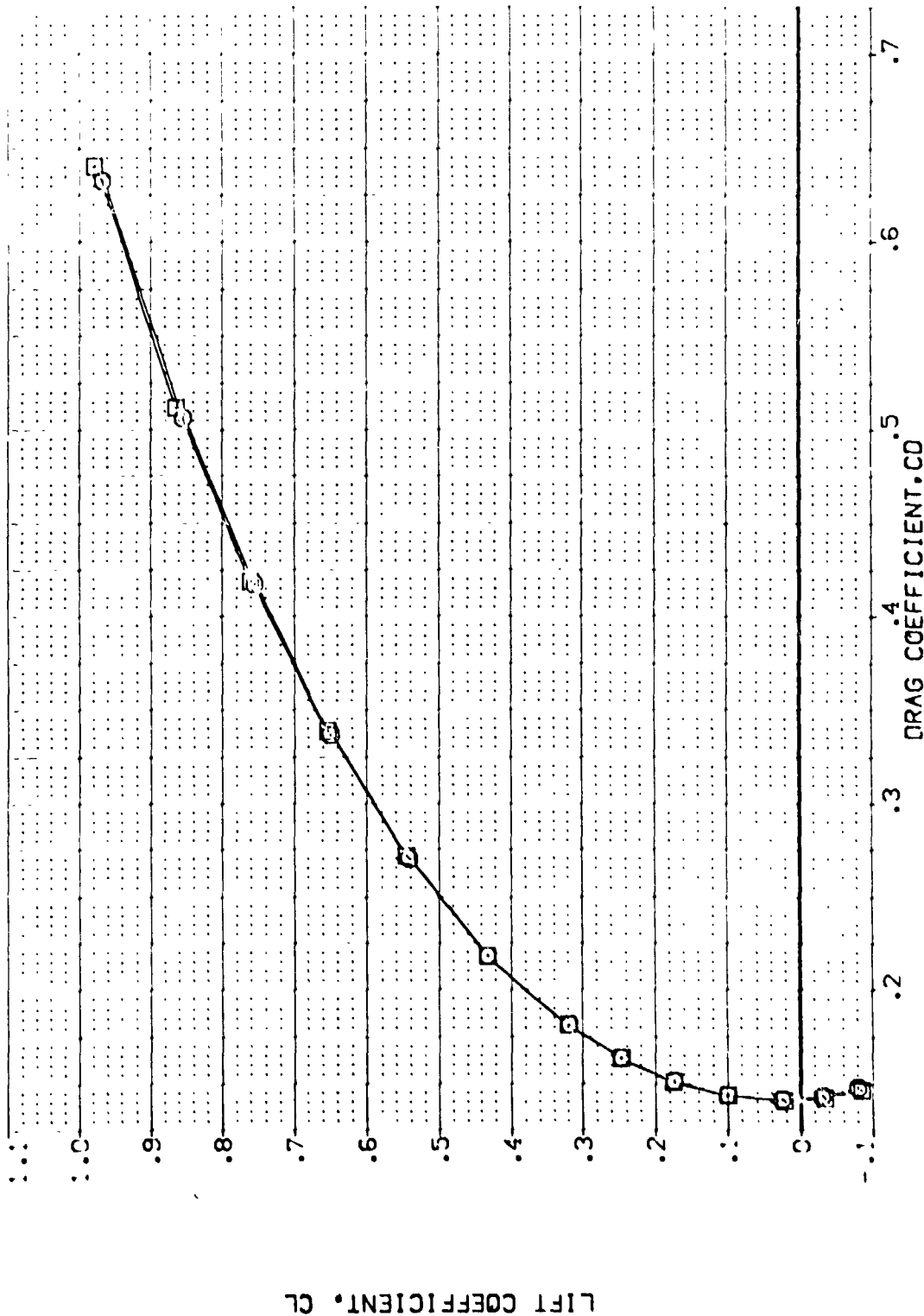


FIG. 6 WING MATRIX
(B)MACH = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		AIRLON		BOFLAP		SPDRBK		REFERENCE INFORMATION	
[TER028]	ARC 97-747	DA538	B C M F V2	V	NOM.	RVL						SREF	2.4210
[TER016]	ARC 97-747	DA538	B C M F V1	V	NOM.	RVL						LREF	14.2440
												EREF	23.1001
												XREF	32.3010
												YREF	11.2600
												ZREF	11.2600
												SCALE	.0300

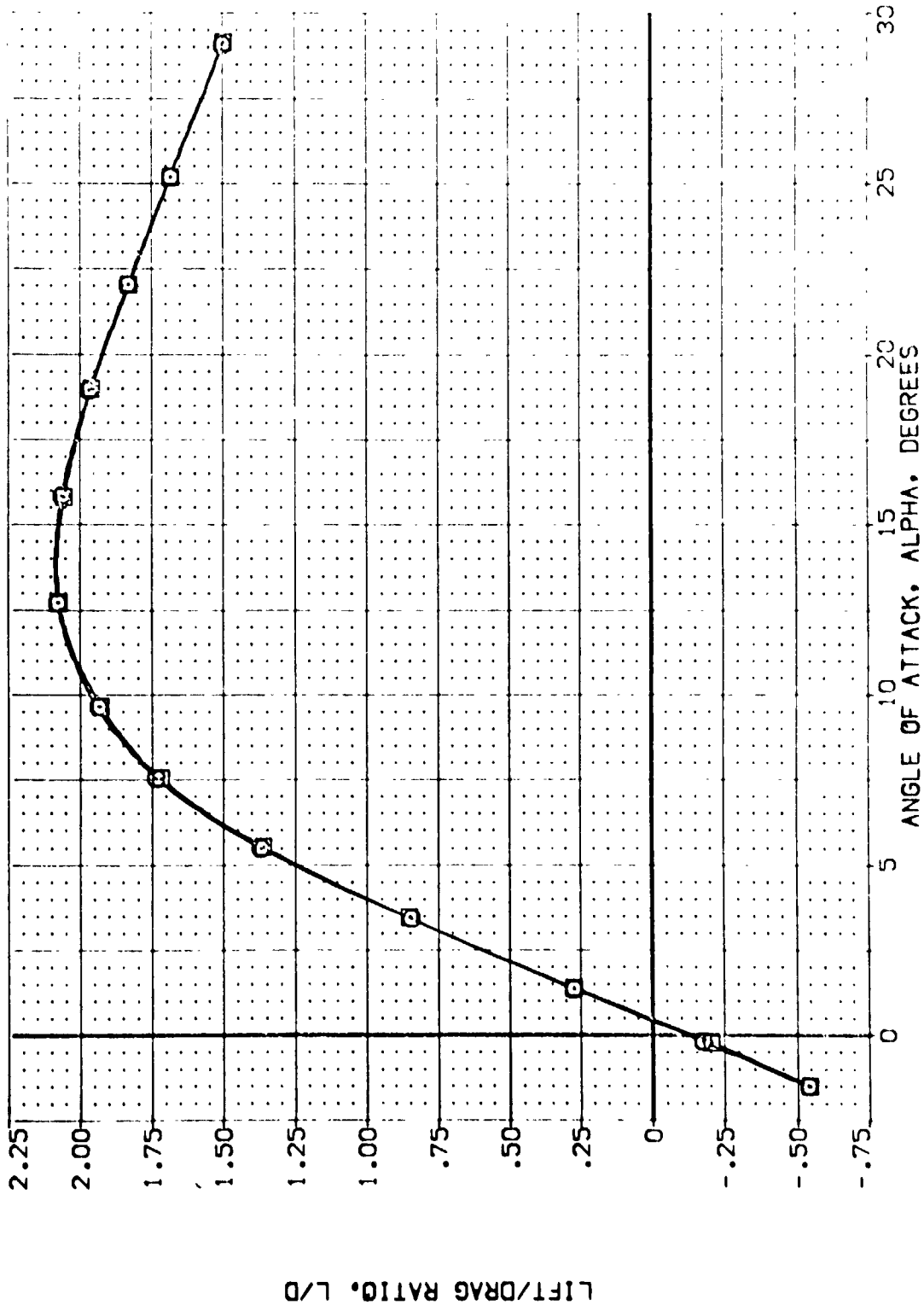


FIG. 6 WING MATRIX

(A)MACH = 1.60

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEX028)	ARC 97-747 DA539 B C M F V2 V	.000	.000	.000	55.000	SREF 2.4210 50.FT.
(-EXP016)	ARC 97-747 DA533 B C M F V1 V	.000	.000	.000	55.000	LREF 14.2440 IN.
						BREF 28.1000 IN.
						XMRD 32.0010 IN.
						YMRD .0000 IN.
						ZMRD 11.2300 IN.
						SCALE .0000

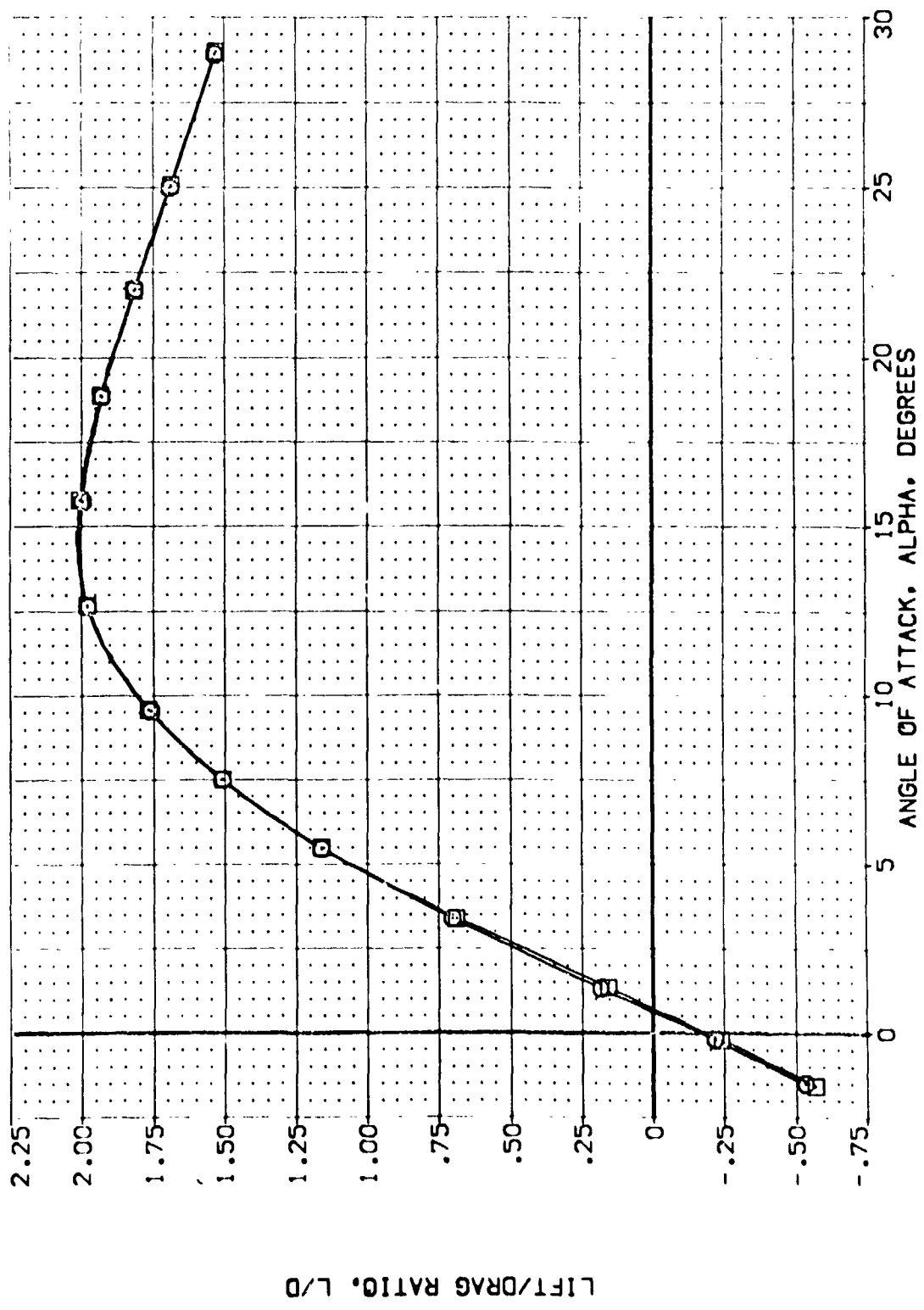


FIG. 6 WING MATRIX

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(AERD28)	ARC 97-747 DAS38 B C H F V2 V	.000	.000	.000	55.000	SREF 2.4210 50.ET.
(AERD16)	ARC 97-747 DAS38 B C H F V1 V	.000	.000	.000	55.000	LREF 14.2440 IN.
						EREF 20.1034 IN.
						XMREF 32.0010 IN.
						YMREF 11.2000 IN.
						ZMREF 11.2000 IN.
						SCALE .0000 SCALE

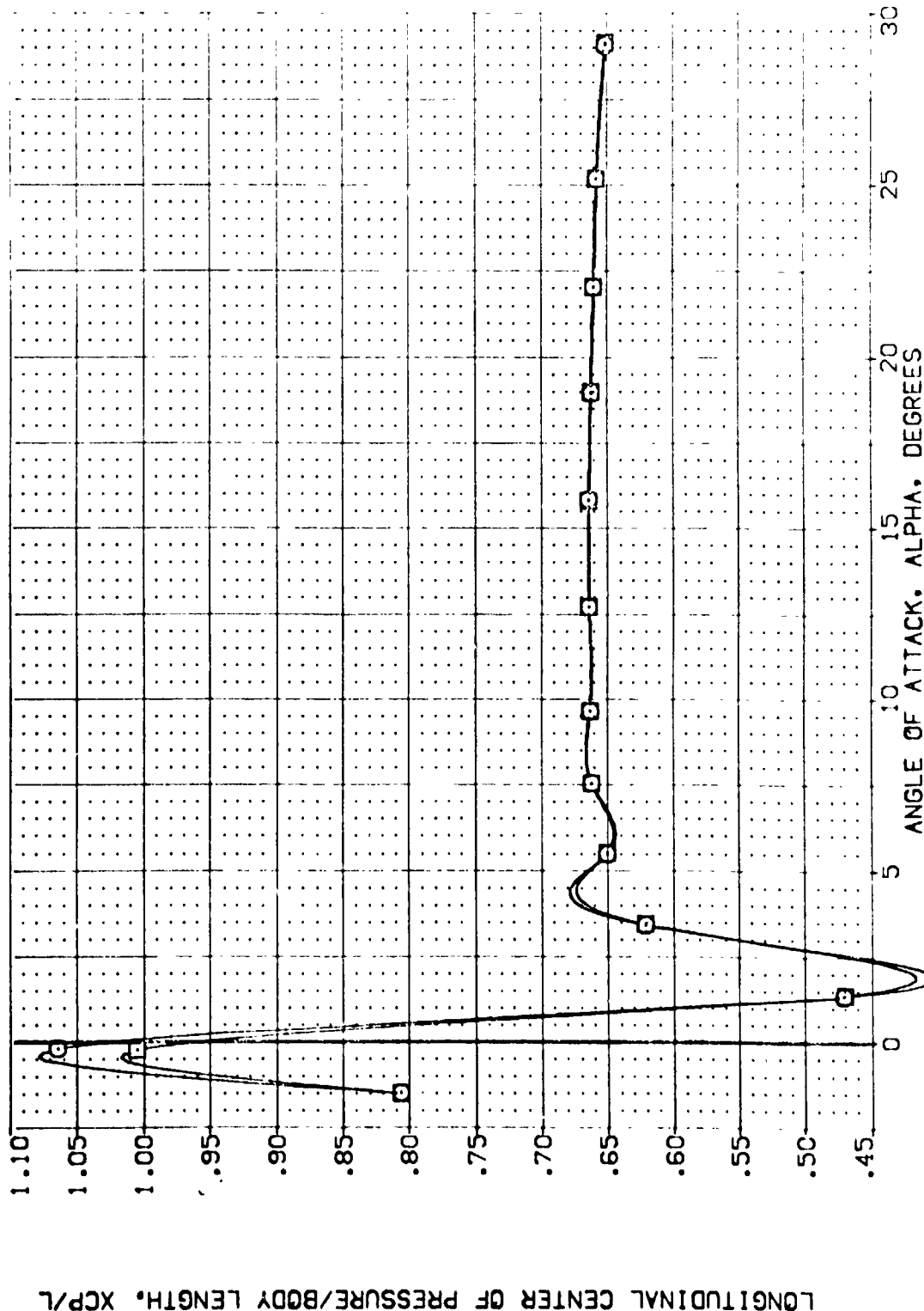


FIG. 6 WING MATRIX

(A)MACH = 1.60

LONGITUDINAL CENTER OF PRESSURE/BODY LENGTH, XCP/L

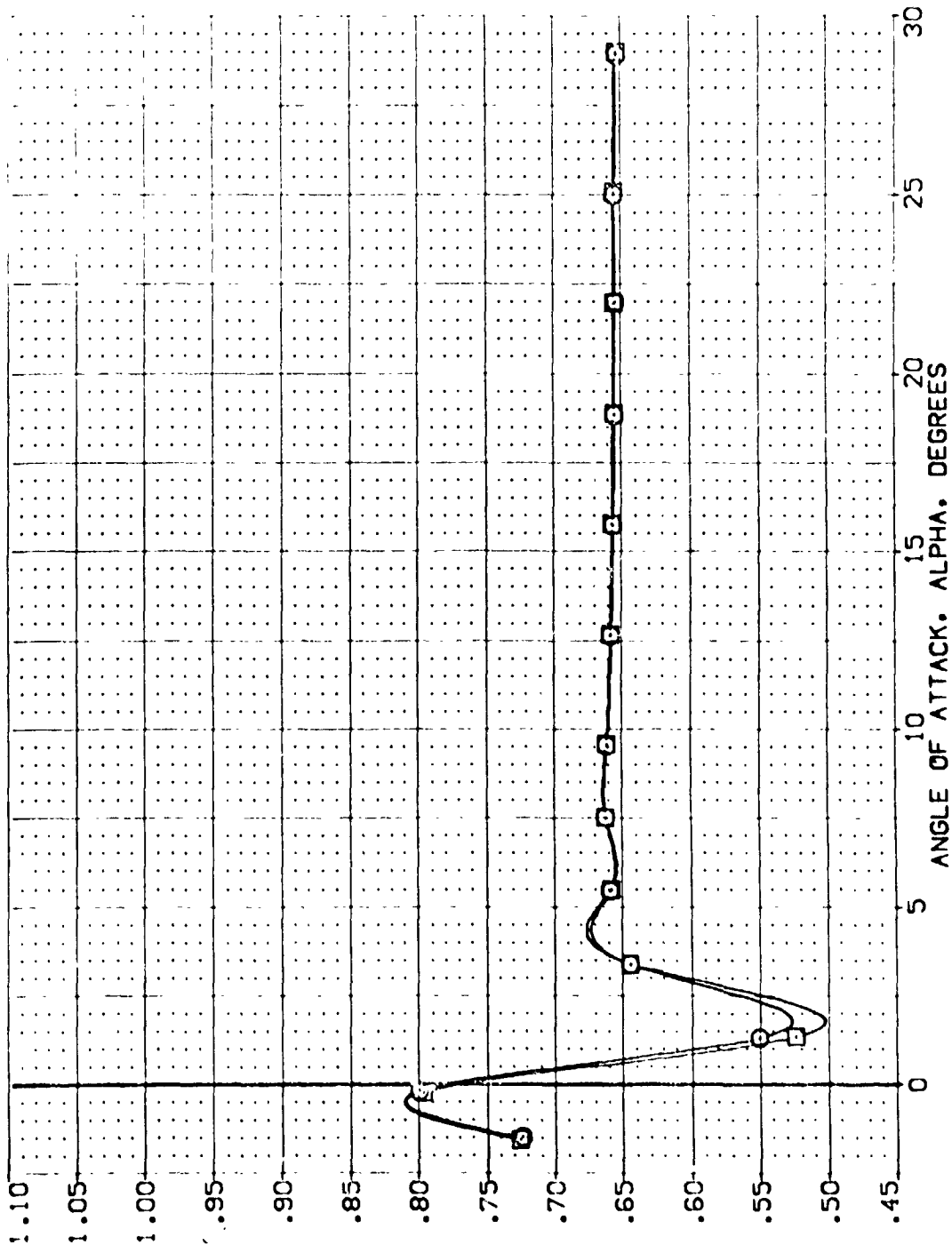


FIG. 6 WING MATRIX

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON	RV/L	ELEVON	AILRON	BOFLAP	SPDRBK	REFERENCE INFORMATION
[TEK003]	ARC 97-747 OAS33 B C H F VI V		RV/L	15.000	.000	-11.700	55.000	SREF 2.4210 SQ. FT.
[TEK011]	ARC 97-747 OAS33 B C H F VI V		RV/L	-10.000	.000	-11.700	55.000	LREF 14.2440
[TEK002]	ARC 97-747 OAS33 B C H F VI V		RV/L	-20.000	.000	-11.700	55.000	EREF 20.1554
[TEK019]	ARC 97-747 OAS33 B C H F VI V		RV/L	-20.000	.000	-11.700	55.000	VMAP 32.0000
[TEK023]	ARC 97-747 OAS33 B C H F VI V		RV/L	-20.000	.000	-11.700	55.000	VMAP 32.0000
								ZMAP 11.2500
								SCALE .0000

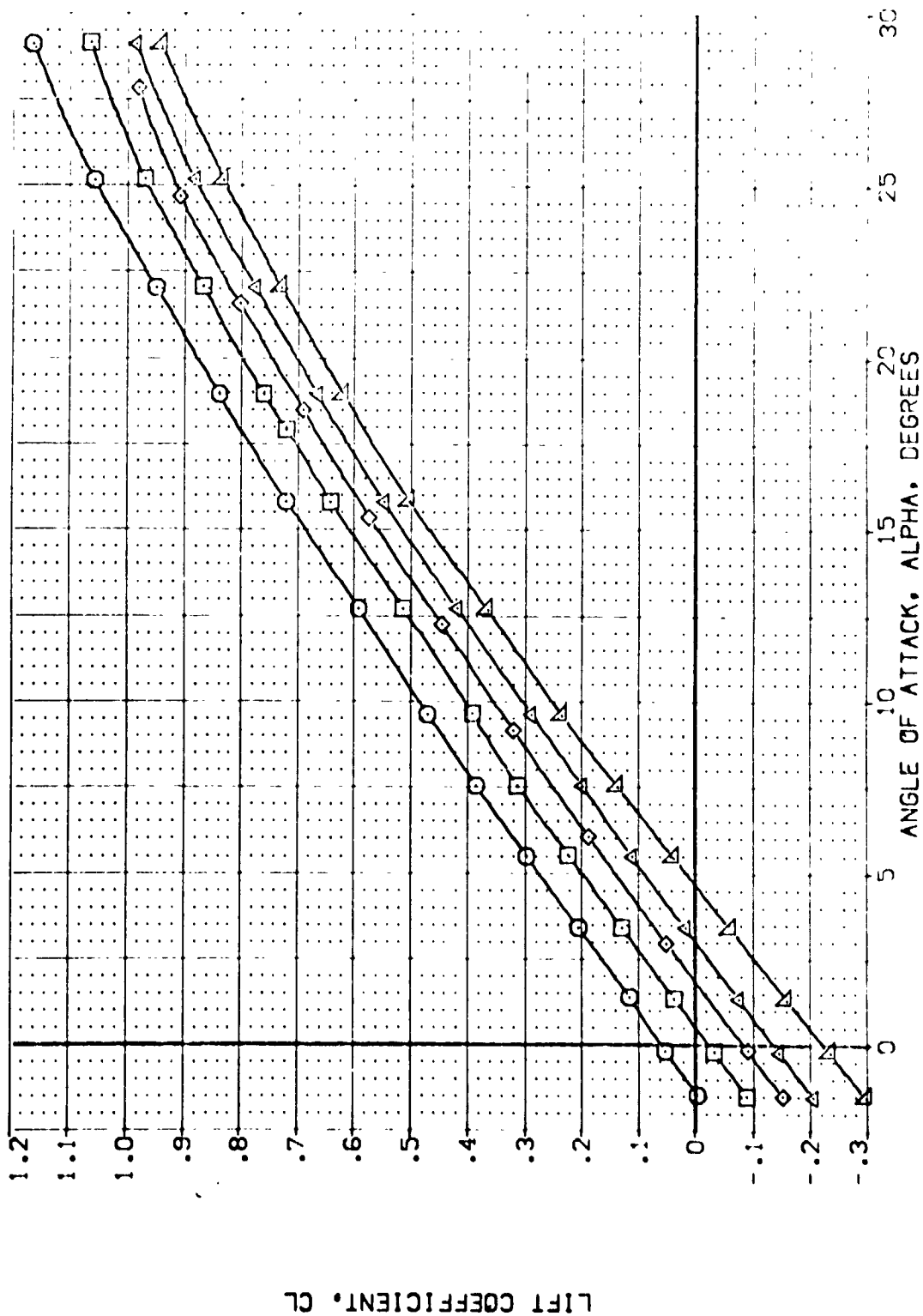


FIG. 7 ELEVON EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON.	PNL	ELEVON	AILRON	BOFLAP	SPOBRK	SPCE	REFERENCE INFORMATION
15-0003	ABC 57-747 B C 11 E V	1	PNL	15.000	.000	-11.700	55.000	2.4210	50. FT.
15-0001	ABC 57-747 B C 11 E V	1	PNL	10.000	.000	-11.700	55.000	14.2440	50. FT.
15-0002	ABC 57-747 B C 11 E V	1	PNL	-10.000	.000	-11.700	55.000	26.1004	50. FT.
15-0009	ABC 57-747 B C 11 E V	1	PNL	-20.000	.000	-11.700	55.000	32.0010	50. FT.
15-0073	ABC 57-747 B C 11 E V	1	PNL	-20.000	.000	-11.700	55.000	11.0000	50. FT.
								SCALE	SCALE

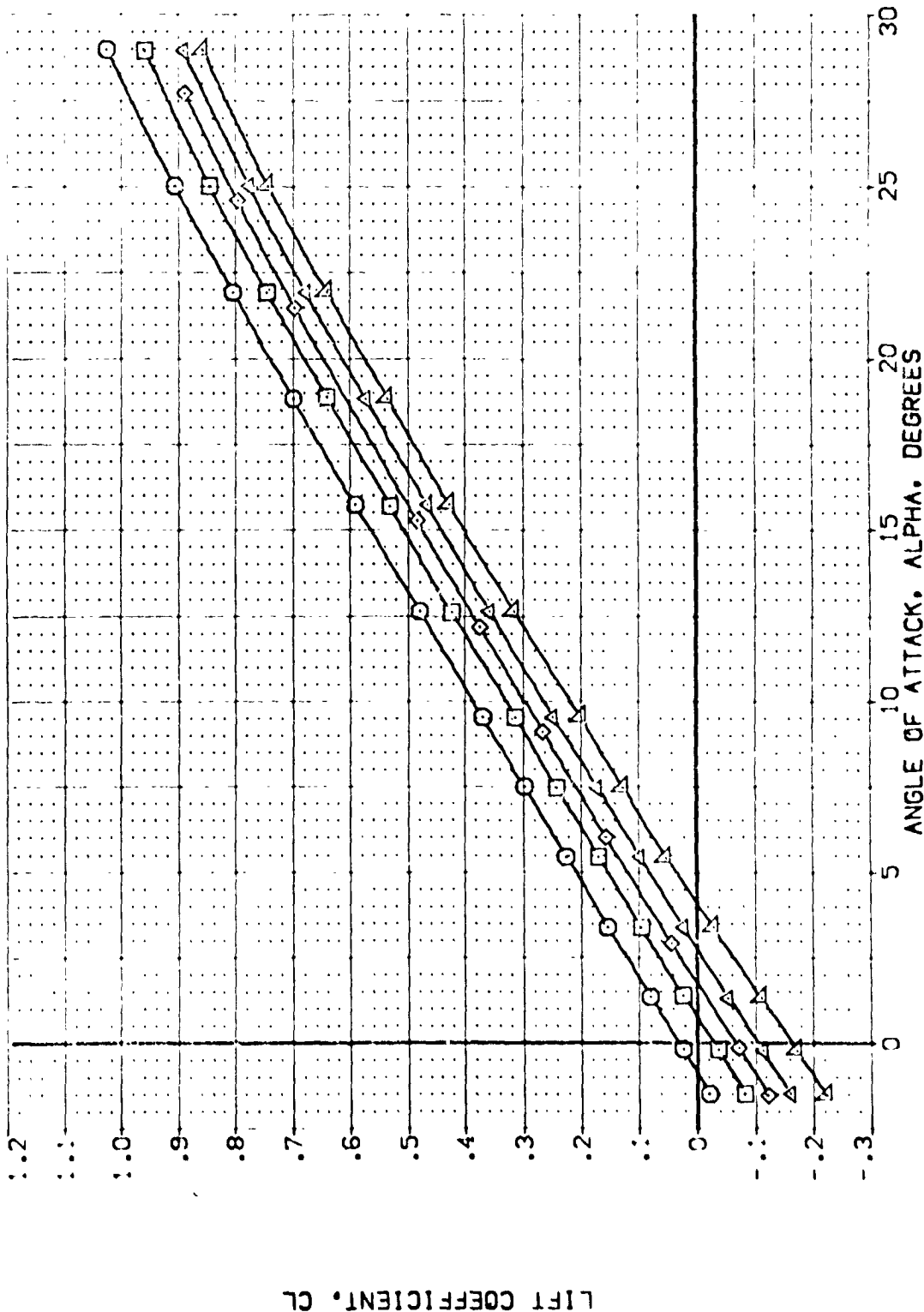


FIG. 7 ELEVON EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON.	RVL	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
{TEK003}	ARC 97-747 OA538 B C H F VI V	NON.	RVL	15.000	.000	-11.700	55.000	SREF 2.4210 SQ.FT.
{TEK011}	ARC 97-747 OA538 B C H F VI V	NON.	RVL	-10.000	.000	-11.700	55.000	LREF 14.2440 IN.
{TEK012}	ARC 97-747 OA538 B C H F VI V	NON.	RVL	-10.000	.000	-11.700	55.000	BREF 23.1004 IN.
{TEK019}	ARC 97-747 OA538 B C H F VI V	NON.	RVL	-20.000	.000	-11.700	55.000	XREF 32.3010 IN.
{TEK023}	ARC 97-747 OA538 B C H F VI V	NON.	RVL	-20.000	.000	-11.700	55.000	YREF 11.0000 IN.
								ZREF 11.2500 IN.
								SCALE .0000

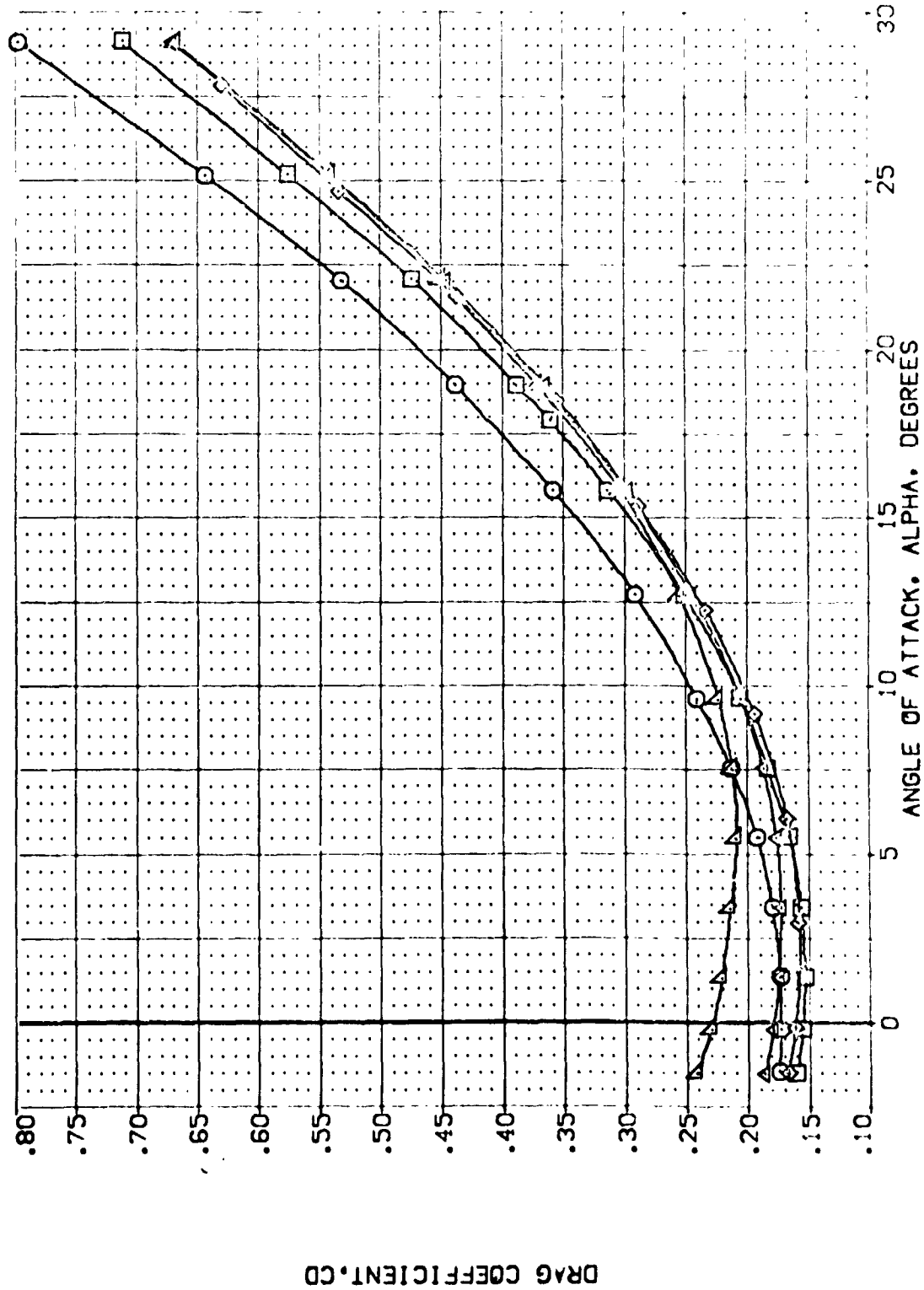


FIG. 7 ELEVON EFFECTS

{A}MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPEED	REFERENCE INFORMATION
(TEC003)	ARC 97-747 B A53B B C M F V1	15.000	.000	-11.700	55.000	SREF 2.4210
(TEC011)	ARC 97-747 B A53B B C M F V1	15.000	.000	-11.700	55.000	UREF 16.2440
(TEC022)	ARC 97-747 B A53B B C M F V1	-10.000	.000	-11.700	55.000	LAUF 20.1004
(TEC019)	ARC 97-747 B A53B B C M F V1	-20.000	.000	-11.700	55.000	AMPS 32.5310
(TEC023)	ARC 97-747 B A53B B C M F V1	-20.000	.000	-11.700	55.000	VMCP .0000
						ZMRP 11.2500
						SCALE .0000

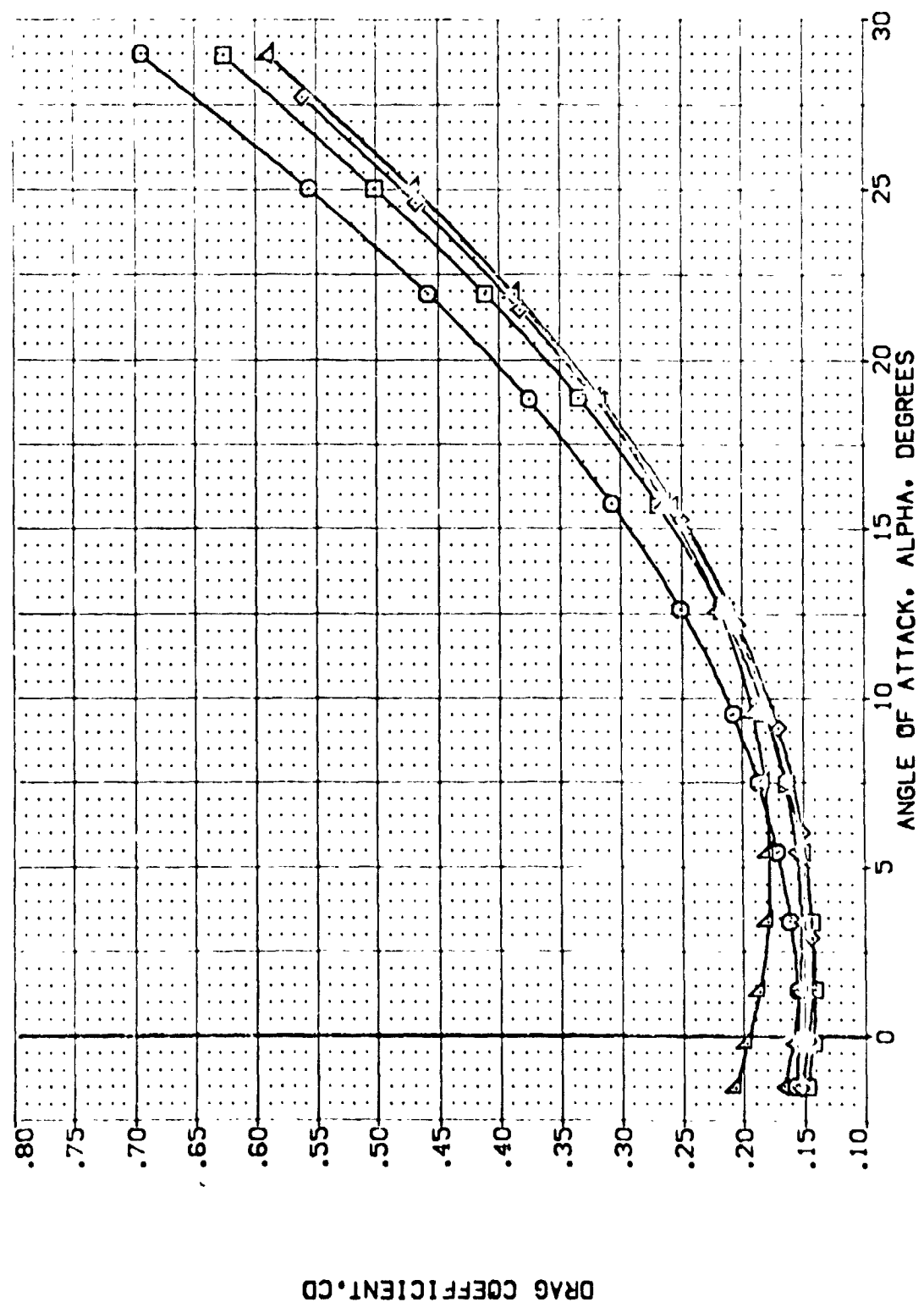


FIG. 7 ELEVON EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOT	RV/L	ELEVON	AILERON	BOFLAP	SPOILER	REFERENCE INFORMATION
(TEK003)	ARC 97-747 OAS23 B C H F VI V	NOT	RV/L	15.000	.000	-11.700	55.000	SREF 2.4210 52.57
(TEK011)	ARC 97-747 OAS23 B C H F VI V	NOT	RV/L	.000	.000	-11.700	55.000	LREF 14.2440 14
(TEK022)	ARC 97-747 OAS23 B C H F VI V	NOT	RV/L	-10.000	.000	-11.700	55.000	BREF 23.1000 10
(TEK019)	ARC 97-747 OAS23 B C H F VI V	NOT	RV/L	-20.000	.000	-11.700	55.000	XREF 32.3010 10
(TEK023)	ARC 97-747 OAS23 B C H F VI V	NOT	RV/L	-20.000	.000	-11.700	55.000	YREF 11.0000 10
								SCALE .0000

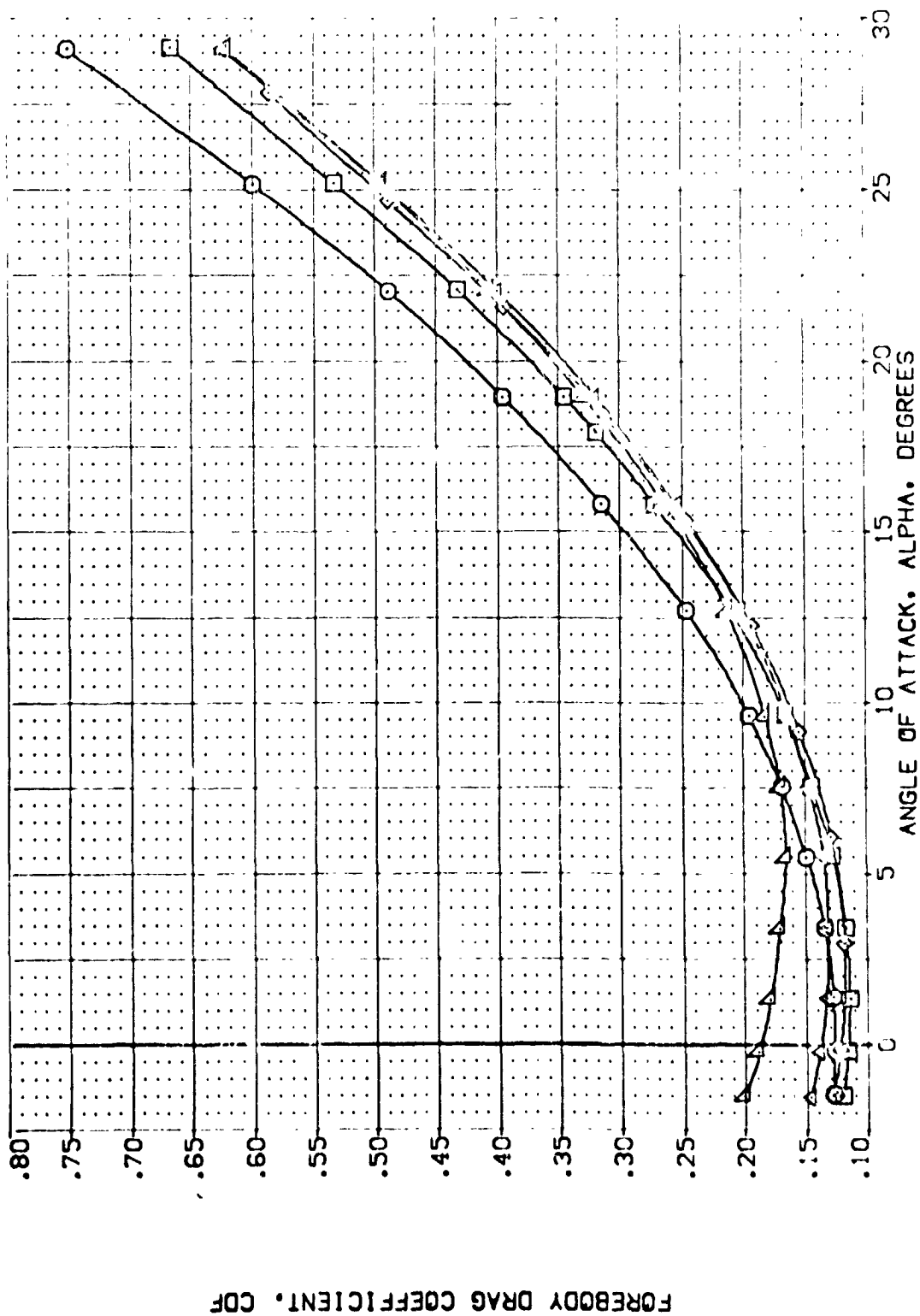


FIG. 7 ELEVON EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOILER	REFERENCE INFORMATION
(TEK003)	ARC 97-747 C-553 B C H F V I V	15.000	.000	-11.700	55.000	SRF 2.4210 SC.FT.
(TEK011)	ARC 97-747 C-553 B C H F V I V	10.000	.000	-11.700	55.000	SRF 14.2140 SC.FT.
(TEK027)	ARC 97-747 C-553 B C H F V I V	-10.000	.000	-11.700	55.000	SRF 20.1000 SC.FT.
(TEK019)	ARC 97-747 C-553 B C H F V I V	-20.000	.000	-11.700	55.000	SRF 32.2070 SC.FT.
(TEK023)	ARC 97-747 C-553 B C H F V I V	-20.000	.000	-11.700	55.000	SRF 11.0000 SC.FT.
						SCALE

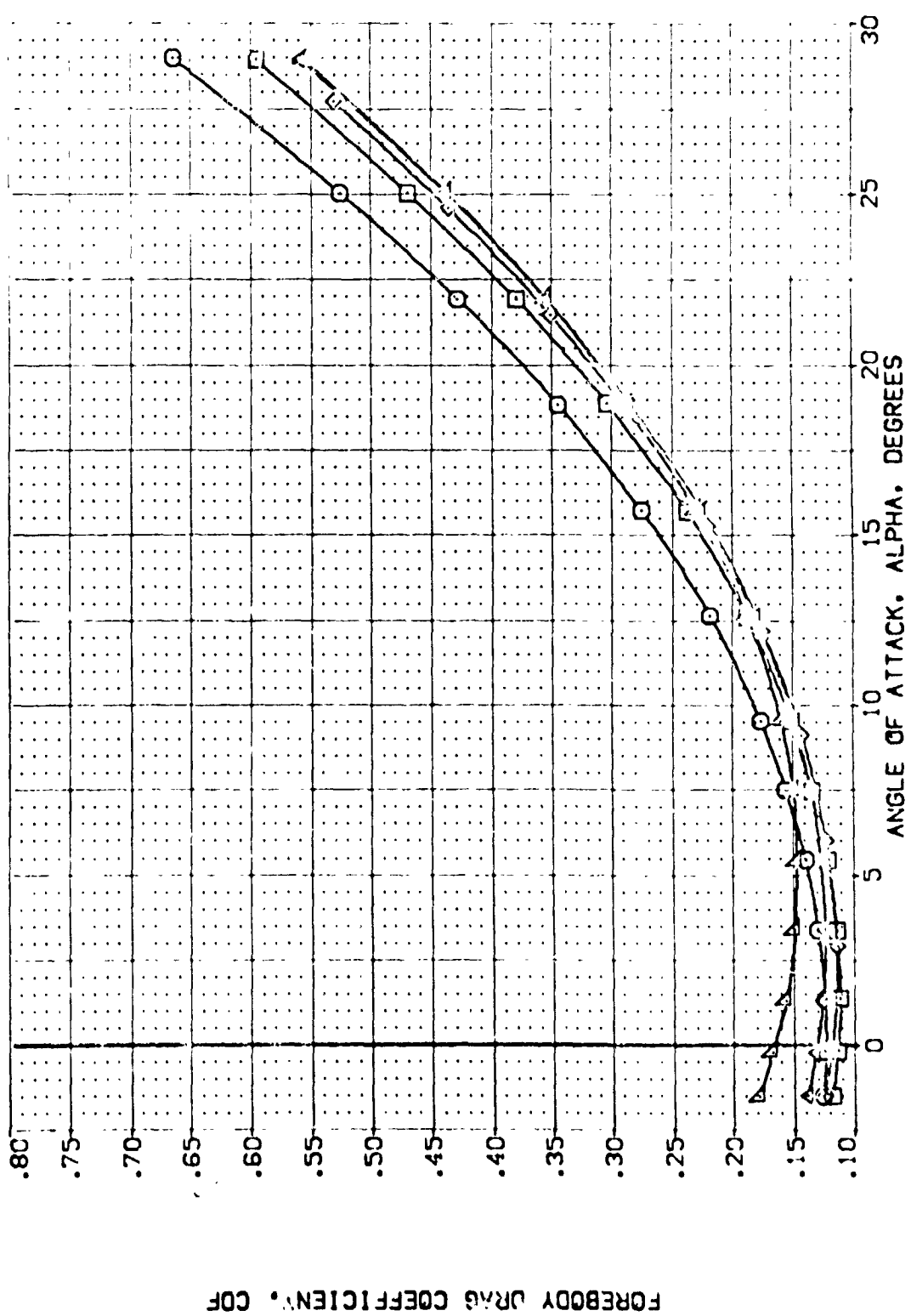


FIG. 7 ELEVON EFFECTS

(B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BD/LAP	SPEED	REFERENCE INFORMATION
(TEK003)	ARC 97-747 CAS33 B C H F VI	15.000	.000	-11.700	55.000	SPREF 2.4210
(TEK011)	ARC 97-747 CAS33 B C H F VI	.000	.000	-11.700	55.000	LRREF 14.2440
(TEK002)	ARC 97-747 CAS33 B C H F VI	-10.000	.000	-11.700	55.000	LRREF 28.1004
(TEK019)	ARC 97-747 CAS33 B C H F VI	-20.000	.000	-11.700	55.000	LRREF 32.1010
(TEK023)	ARC 97-747 CAS33 B C H F VI		.000	-11.700	55.000	LRREF 36.1016
						SCALE 11.2000
						SCALE .0000

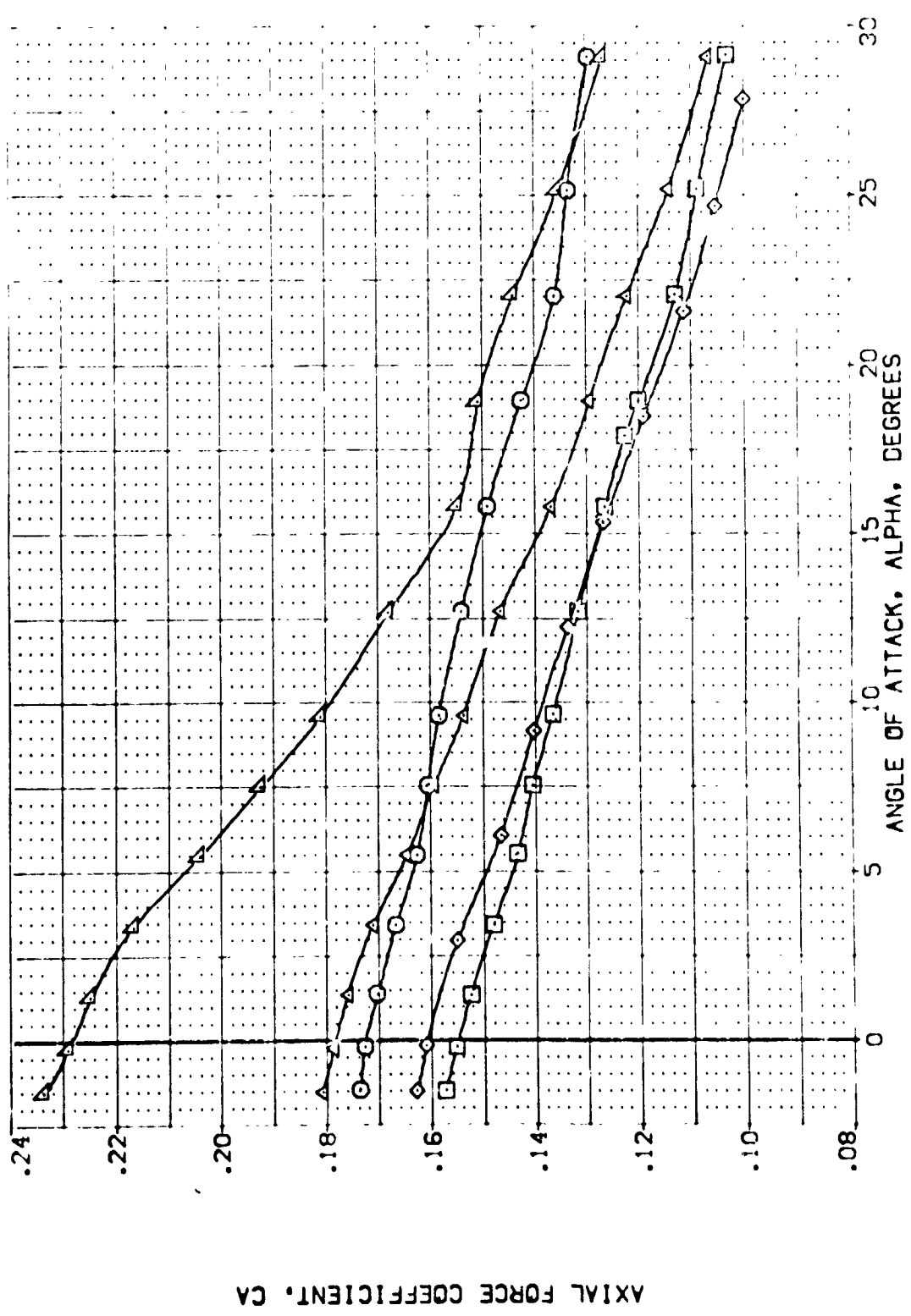


FIG. 7 ELEVON EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOILER	REFERENCE INFORMATION
[TEK003]	ARC 97-747 OA538 B C M F V1 V	15.000	.000	-11.700	55.000	SREF 2.4210 SQ.FT.
[TEK011]	ARC 97-747 OA538 B C M F V1 V	.000	.000	-11.700	55.000	LREF 14.2440
[TEK022]	ARC 97-747 OA538 B C M F V1 V	-10.000	.000	-11.700	55.000	BREF 28.1004
[TEK019]	ARC 97-747 OA538 B C M F V1 V	-20.000	.000	-11.700	55.000	XMREF 32.3010
[TEK023]	ARC 97-747 OA538 B C M F V1 V	-20.000	.000	-11.700	55.000	YMREF 11.2600
						ZMREF .0300 SCALE

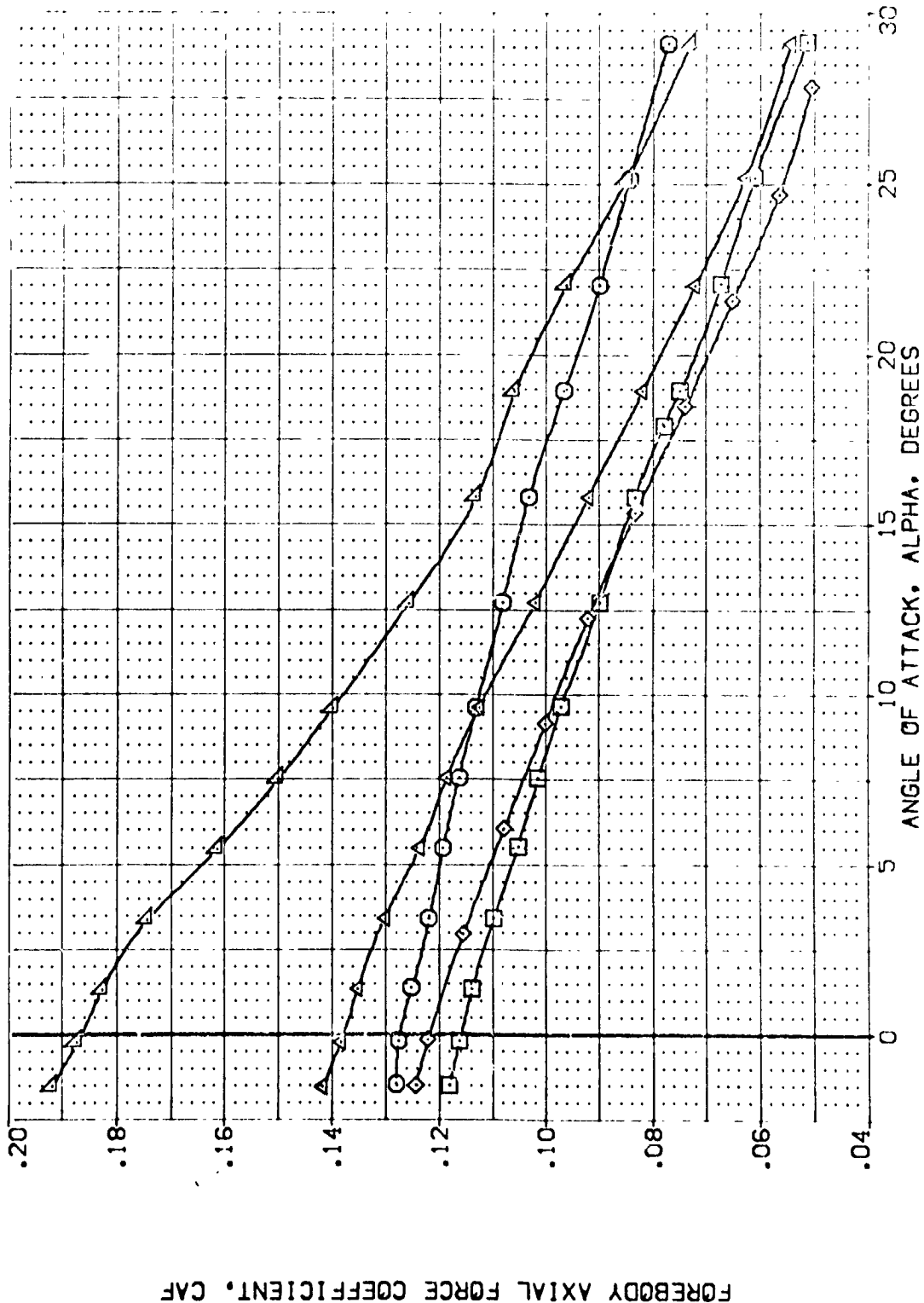
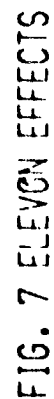


FIG. 7 ELEVON EFFECTS

(A)MACH = 1.60

FORERBODY AXIAL FORCE COEFFICIENT, C_{AF}


$$C_3MAC = 2.00$$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPORTR	REFERENCE INFORMATION
[TEK003]	ARC 97-747 CAS38 B C M F VI V	15.000	.000	-11.700	55.000	SREF 2.4210 50.000
[TEK011]	ARC 97-747 CAS38 B C M F VI V	.000	.000	-11.700	55.000	LREF 14.2400 50.000
[TEK002]	ARC 97-747 CAS38 B C M F VI V	-10.000	.000	-11.700	55.000	BREF 20.0000 50.000
[TEK019]	ARC 97-747 CAS38 B C M F VI V	-20.000	.000	-11.700	55.000	YREF 32.0000 50.000
[TEK023]	ARC 97-747 CAS38 B C M F VI V	-20.000	.000	-11.700	55.000	ZREF 11.0000 50.000
						SCALE 11.0000

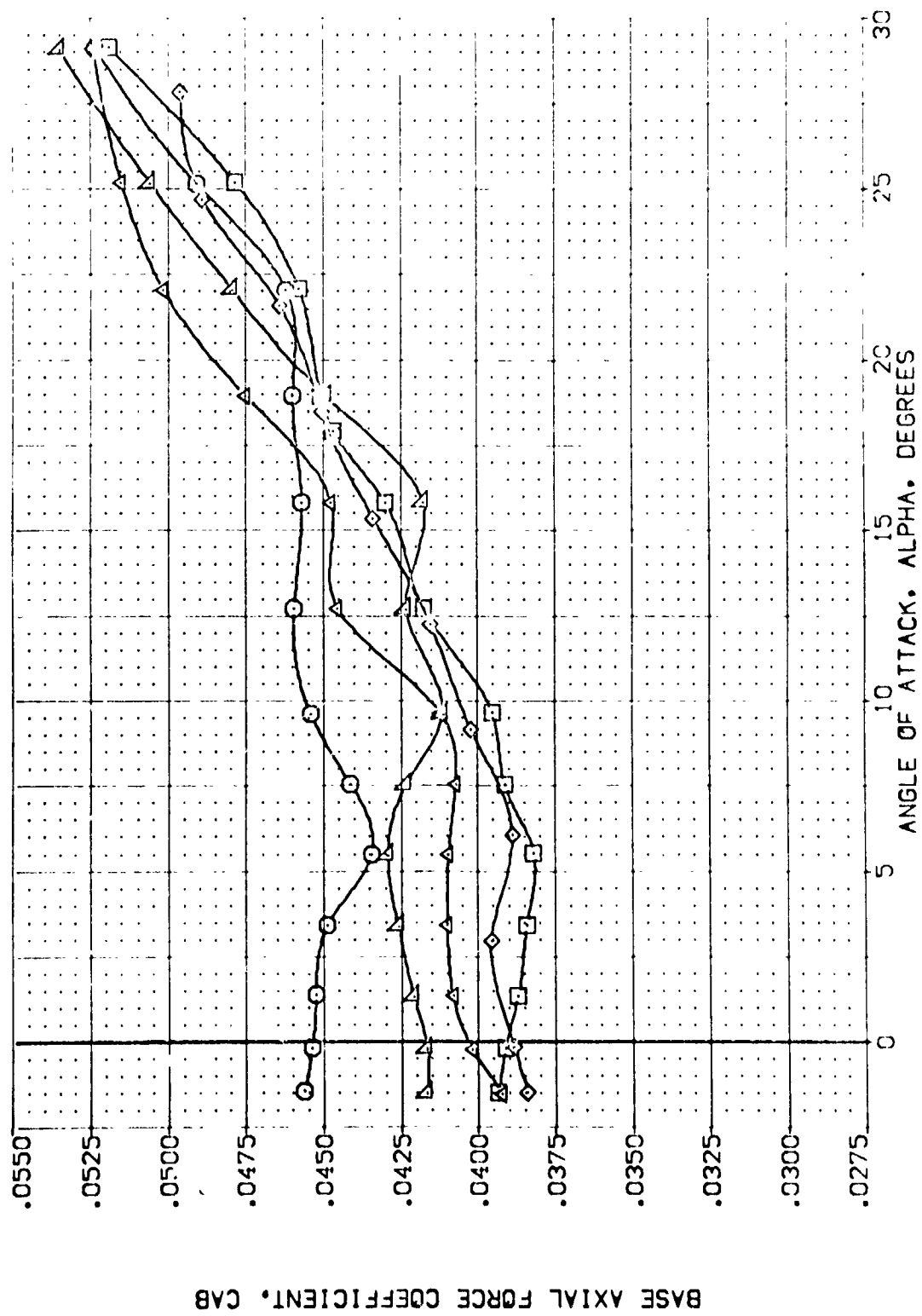


FIG. 7 ELEVON EFFECTS

(A) VACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOILER	REFERENCE INFORMATION
[TEK003]	ARC 97-747 CAS23 B C M F VI V	15.000	.000	-11.700	55.000	SREF 2.4210 90.F"
[TEK011]	ARC 97-747 CAS03 B C M F VI V	.000	.000	-11.700	55.000	LREF 14.2440 IN.
[TEK002]	ARC 97-747 CAS03 B C M F VI V	-10.000	.000	-11.700	55.000	EREF 23.1004 IN.
[TEK019]	ARC 97-747 CAS03 B C M F VI V	-20.000	.000	-11.700	55.000	XMPP 32.0010 IN.
[TEK023]	ARC 97-747 C/S33 B C M F VI V	-20.000	.000	-11.700	55.000	YMPP 11.7000 IN.
						ZMPP 11.7000 IN.
						SCALE .0000

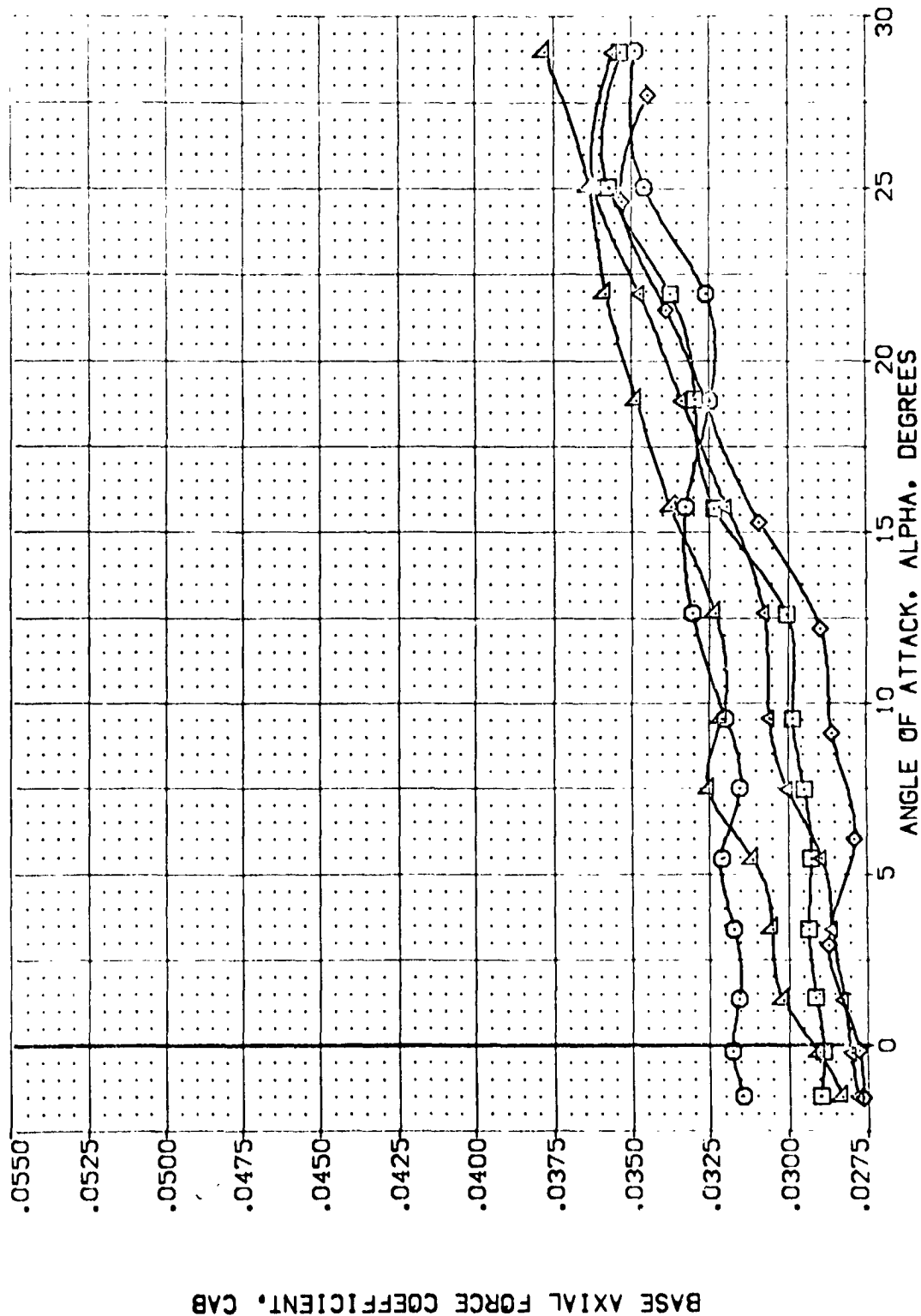


FIG. 7 ELEVON EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	REF. INFO	SCALE
[TEK003]	ARC 97-747 DAS38 B C M F VI V	REF 2.4210	50.000
[TEK011]	ARC 97-747 DAS38 B C M F VI V	LREF 14.2440	50.000
[TEK002]	ARC 97-747 DAS38 B C M F VI V	REF 28.1004	50.000
[TEK019]	ARC 97-747 DAS38 B C M F VI V	XREF 32.3010	50.000
[TEK023]	ARC 97-747 DAS38 B C M F VI V	YREF 11.2000	50.000
		ZREF 11.2000	50.000
		SCALE 0.000	50.000

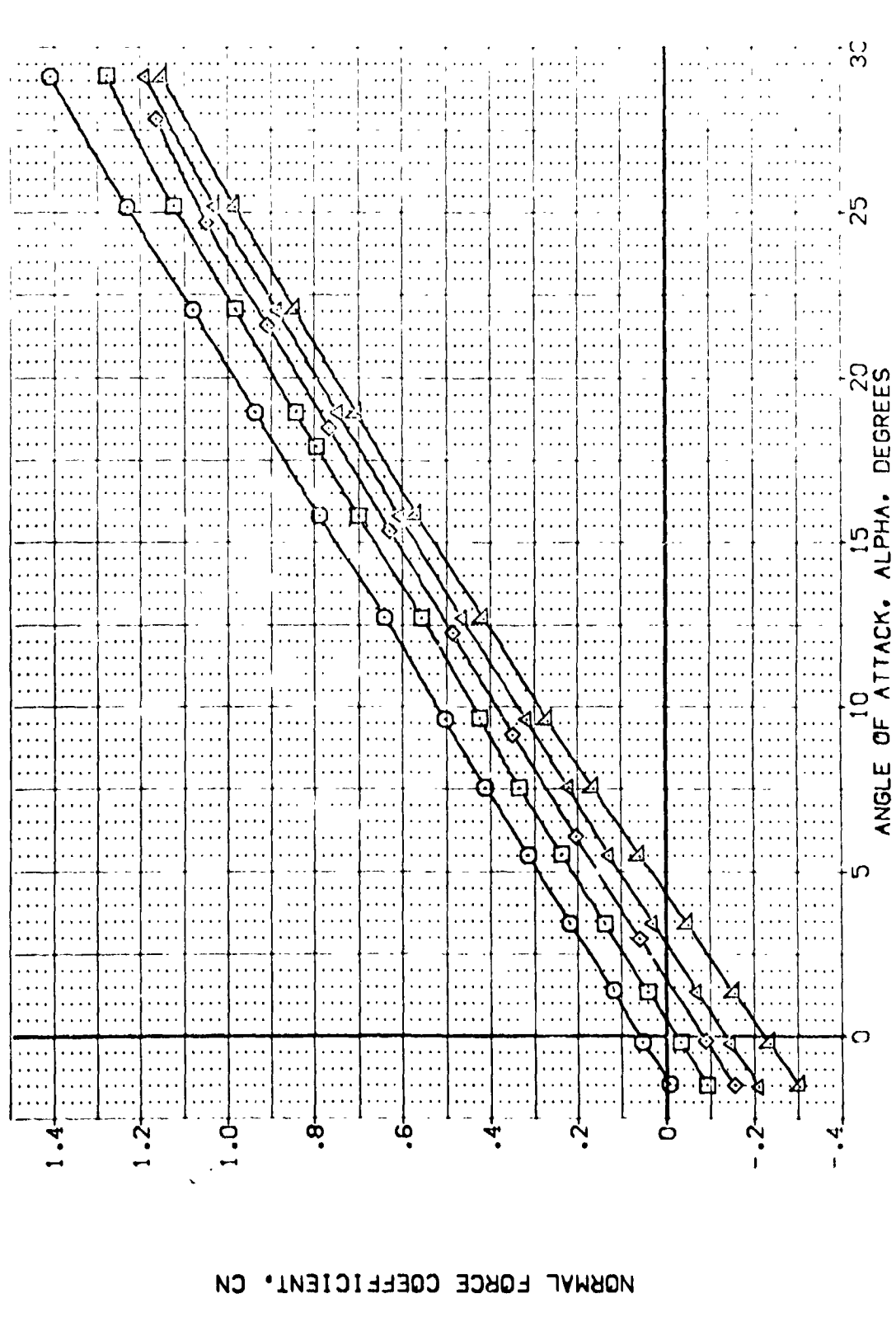


FIG. 7 ELEVON EFFECTS
 (A)MACH = 1.60

NORMAL FORCE COEFFICIENT, CN

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	ATLON	BOFLAP	SPDBK	REFERENCE INFORMATION
(1E-003)	APC 97-747 CAS33 B C M F V	15.000	.000	-11.700	55.000	2.4210 SQ.FT.
(1E-001)	APC 97-747 CAS33 B C M F V	10.000	.000	-11.700	55.000	14.2400
(1E-002)	APC 97-747 CAS33 B C M F V	-10.000	.000	-11.700	55.000	28.1000
(1E-009)	APC 97-747 CAS33 B C M F V	-20.000	.000	-11.700	55.000	32.0000
(1E-023)	APC 97-747 CAS33 B C M F V	-20.000	.000	-11.700	55.000	11.2000
					SCALE	SCALE

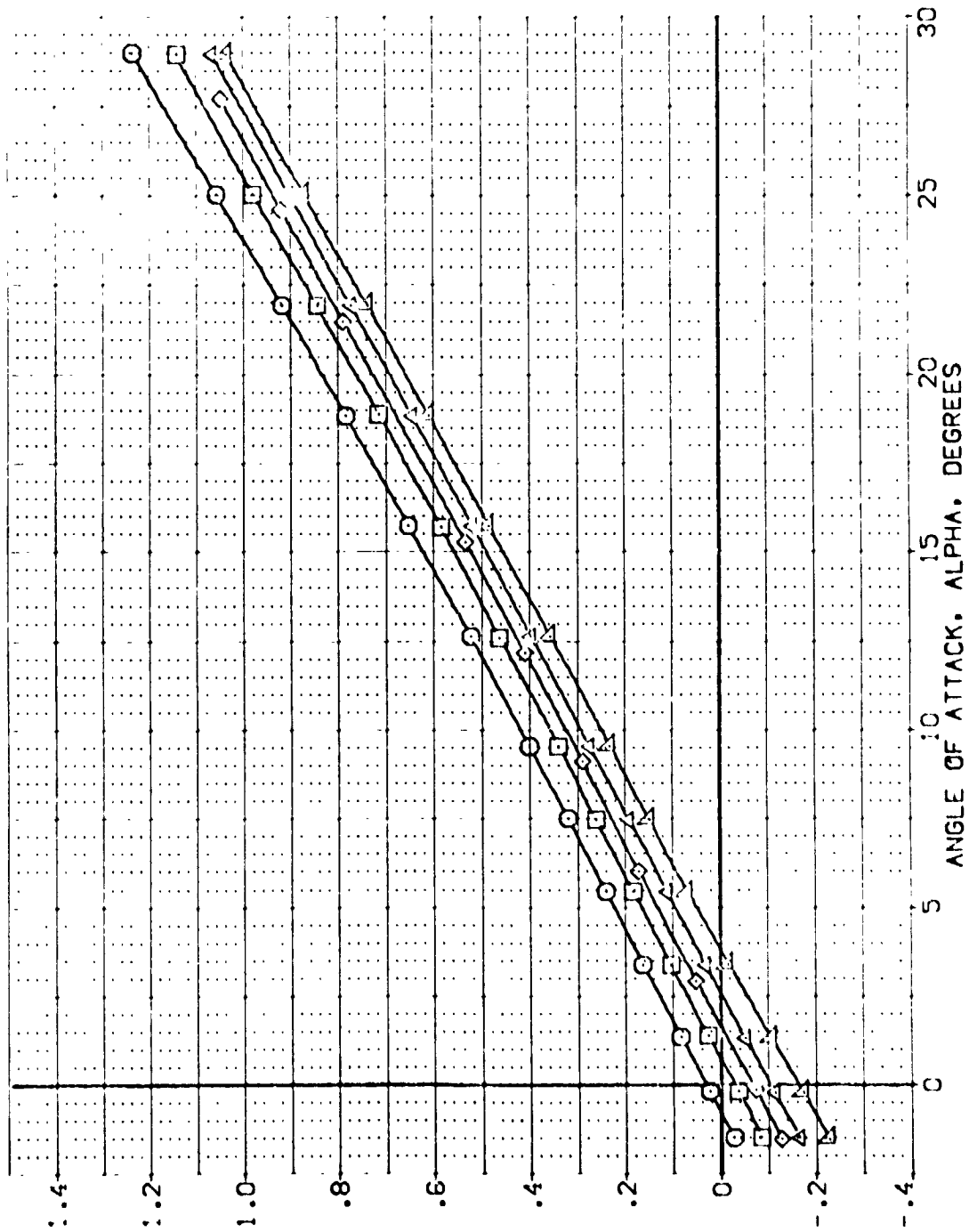
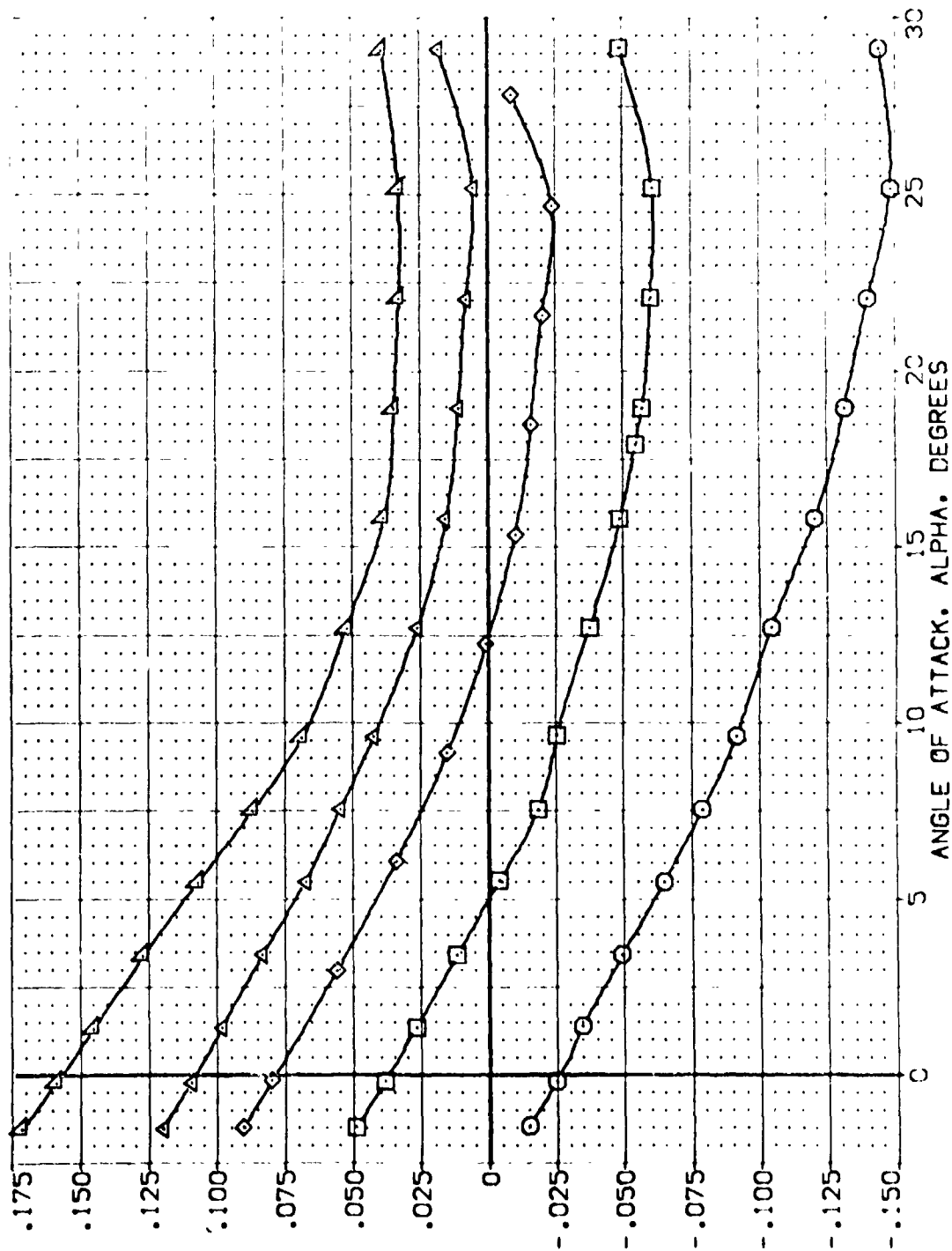


FIG. 7 ELEVON EFFECTS

(B)MACH = 2.00

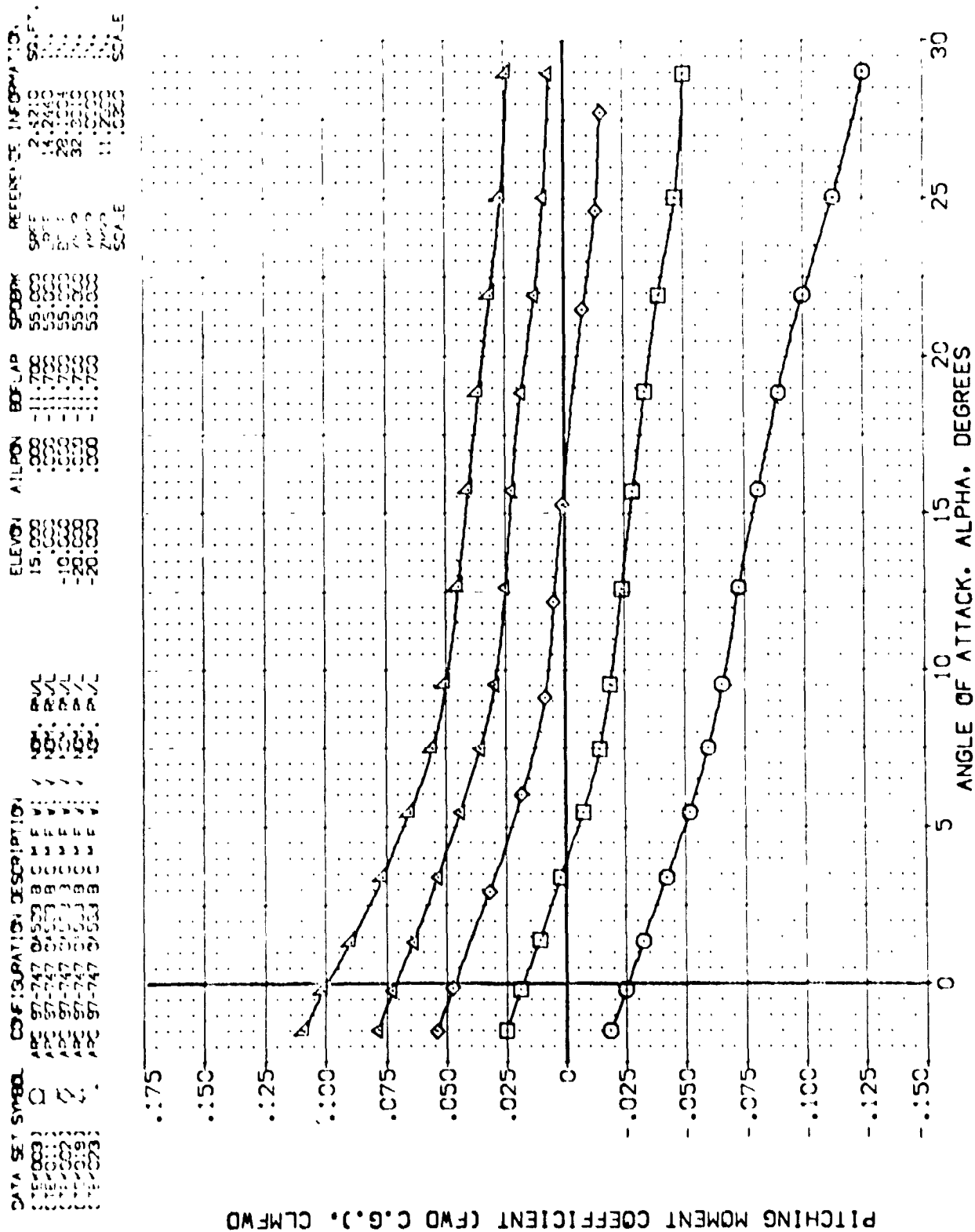
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON.	RV/L	ELEVON	AIRLON	BOFLAP	SPDRBY	REFERENCE INFORMATION
(TEK003)	ARC 97-747 OAS38 B C M F V1 V	NON.	RV/L	15.000	.000	-11.700	55.000	SPREF 2.4210
(TEK011)	ARC 97-747 OAS38 B C M F V1 V	NON.	RV/L	10.000	.000	-11.700	55.000	LRREF 14.2440
(TEK002)	ARC 97-747 OAS38 B C M F V1 V	NON.	RV/L	-10.000	.000	-11.700	55.000	CRREF 28.1004
(TEK019)	ARC 97-747 OAS38 B C M F V1 V	NON.	RV/L	-20.000	.000	-11.700	55.000	VMREF 92.5010
(TEK023)	ARC 97-747 OAS38 B C M F V1 V	NON.	RV/L					ZMREF 11.2500
								SCALE .0000
								SCALE .0000



PITCHING MOMENT COEFFICIENT (FWD C.G.), CLMFW

FIG. 7 ELEVON EFFECTS

(A)MACH = 1.60



DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SPD	REF	SCALE
[TEV003]	ARC 97-747 DAS38 B C M F V1 V	55.000	2.4210	50.000
[TEV011]	ARC 97-747 DAS38 B C M F V1 V	55.000	14.2440	50.000
[TEV022]	ARC 97-747 DAS38 B C M F V1 V	55.000	28.1000	50.000
[TEV319]	ARC 97-747 DAS38 B C M F V1 V	55.000	32.1000	50.000
[TEV023]	ARC 97-747 DAS38 B C M F V1 V	55.000	11.2600	50.000

REFERENCE INFORMATION

SPD	REF	SCALE
55.000	2.4210	50.000
55.000	14.2440	50.000
55.000	28.1000	50.000
55.000	32.1000	50.000
55.000	11.2600	50.000

SPD REF SCALE

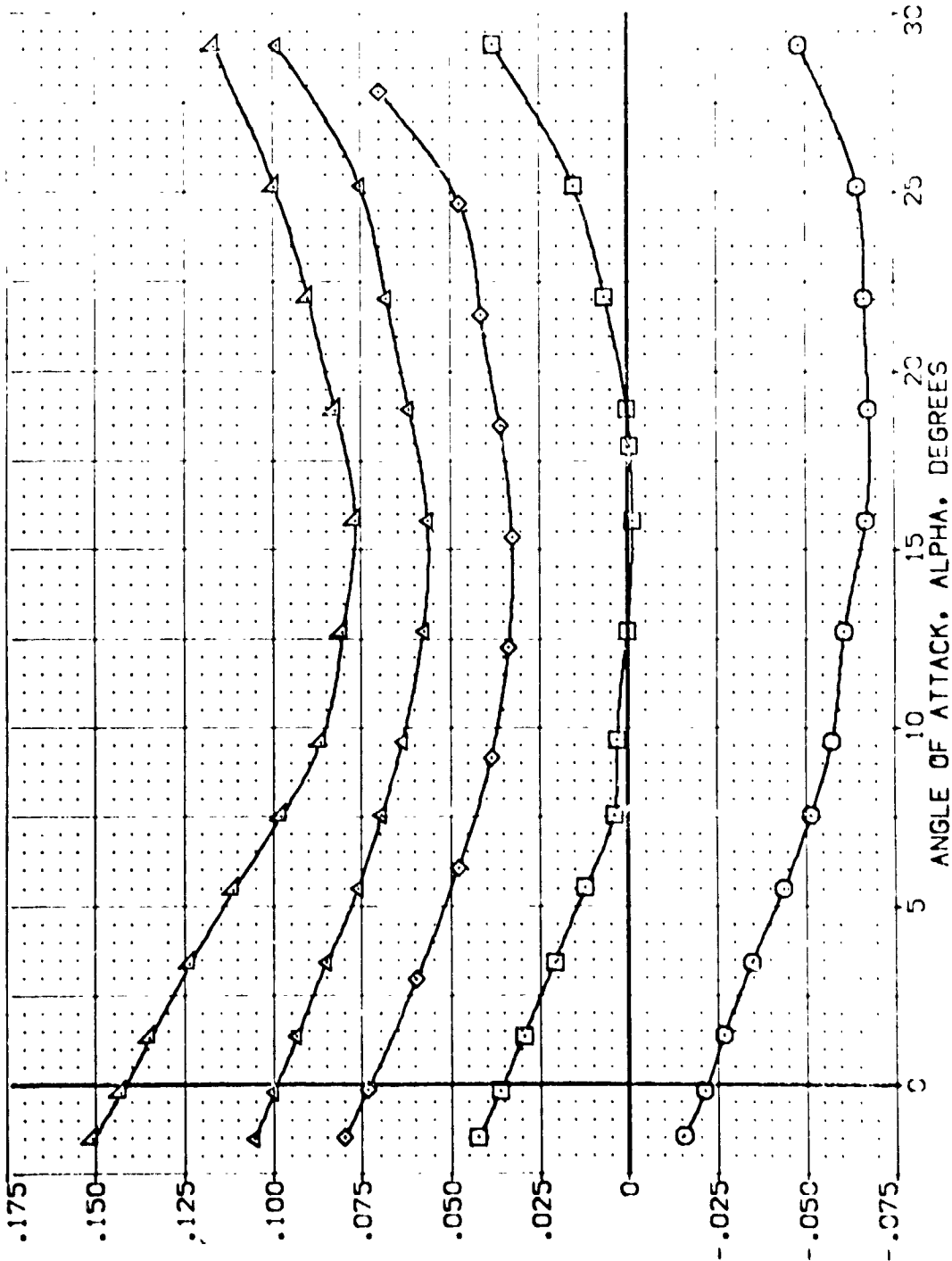


FIG. 7 ELEVON EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOILER	REFERENCE INFORMATION
(TEK003)	ARC 97-747 OAS33 B C M F V1 V	15.000	.000	-11.700	55.000	SREF 2.4210 50.000
(TEK011)	ARC 97-747 OAS33 B C M F V1 V	10.000	.000	-11.700	55.000	LPREF 14.2440 10.000
(TEK002)	ARC 97-747 OAS33 B C M F V1 V	-10.000	.000	-11.700	55.000	EPREF 20.1600 10.000
(TEK019)	ARC 97-747 OAS33 B C M F V1 V	-20.000	.000	-11.700	55.000	YREF 22.1600 10.000
(TEK023)	ARC 97-747 OAS33 B C M F V1 V		.000	-11.700	55.000	YREF 11.2440 10.000
						SCALE 10.000

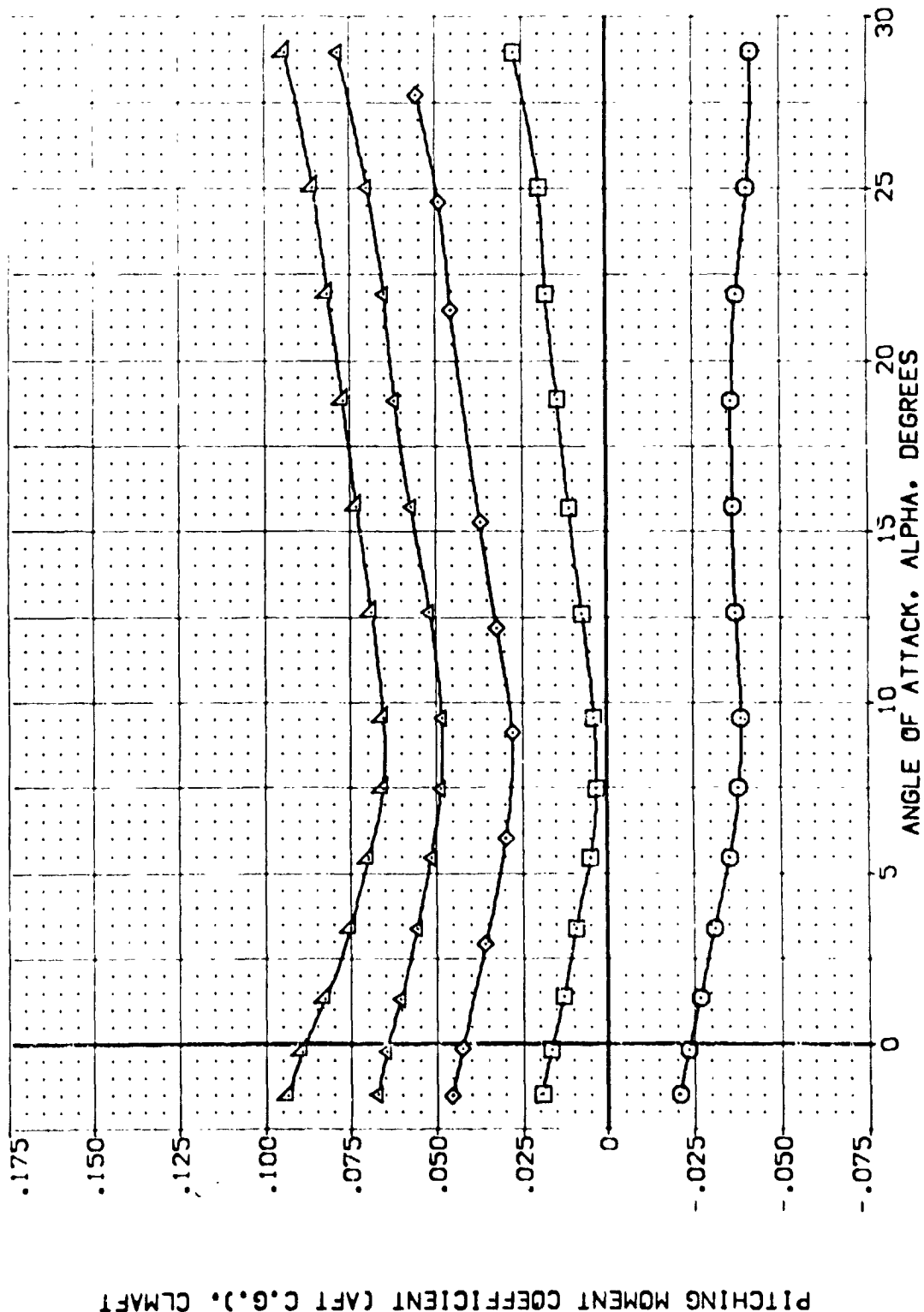


FIG. 7 ELEVON EFFECTS
(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPDRBK	REFERENCE INFORMATION
[TEK003]	ARC 97-747 DAS38 B C M F VI V	15.000	.000	-11.700	55.000	SREF 2.4210 SC.FT.
[TEK011]	ARC 97-747 DAS38 B C M F VI V	.000	.000	-11.700	55.000	LREF 14.2440 IN.
[TEK002]	ARC 97-747 DAS38 B C M F VI V	-10.000	.000	-11.700	55.000	BREF 28.1004 IN.
[TEK019]	ARC 97-747 DAS38 B C M F VI V	-20.000	.000	-11.700	55.000	XREF 32.5310 IN.
[TEK023]	ARC 97-747 DAS38 B C M F VI V	-20.000	.000	-11.700	55.000	YREF 11.2500 IN.
						ZREF 11.2500 IN.
						SCALE .0300

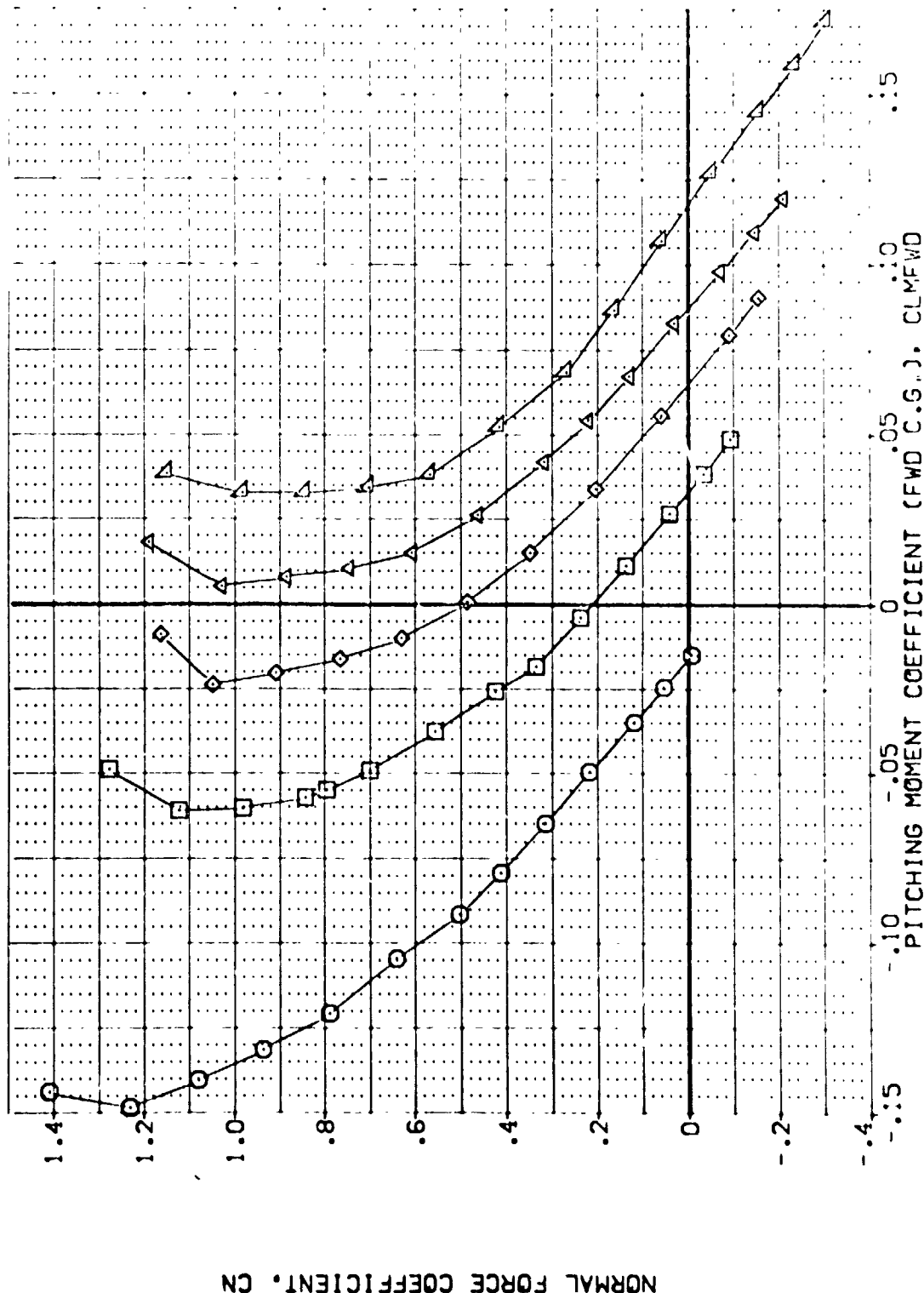


FIG. 7 ELEVON EFFECTS

(Mach = 1.60)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	BOFLAP	SPDRK	REFERENCE INFORMATION
[TEK003]	ARC 97-747 DAS33 B C H F VI V	15.000	.000	-11.700	55.000	SREF 2.4210 50. FT.
[TEK011]	ARC 97-747 DAS33 B C H F VI V	15.000	.000	-11.700	55.000	LREF 14.2440 IN.
[TEK002]	ARC 97-747 DAS33 B C H F VI V	-10.000	.000	-11.700	55.000	SREF 28.1004 IN.
[TEK019]	ARC 97-747 DAS33 B C H F VI V	-20.000	.000	-11.700	55.000	XREF 32.5010 IN.
[TEK023]	ARC 97-747 DAS33 B C H F VI V	-30.000	.000	-11.700	55.000	YREF 11.2000 IN.
						ZREF 11.2000 IN.
						SCALE .0000

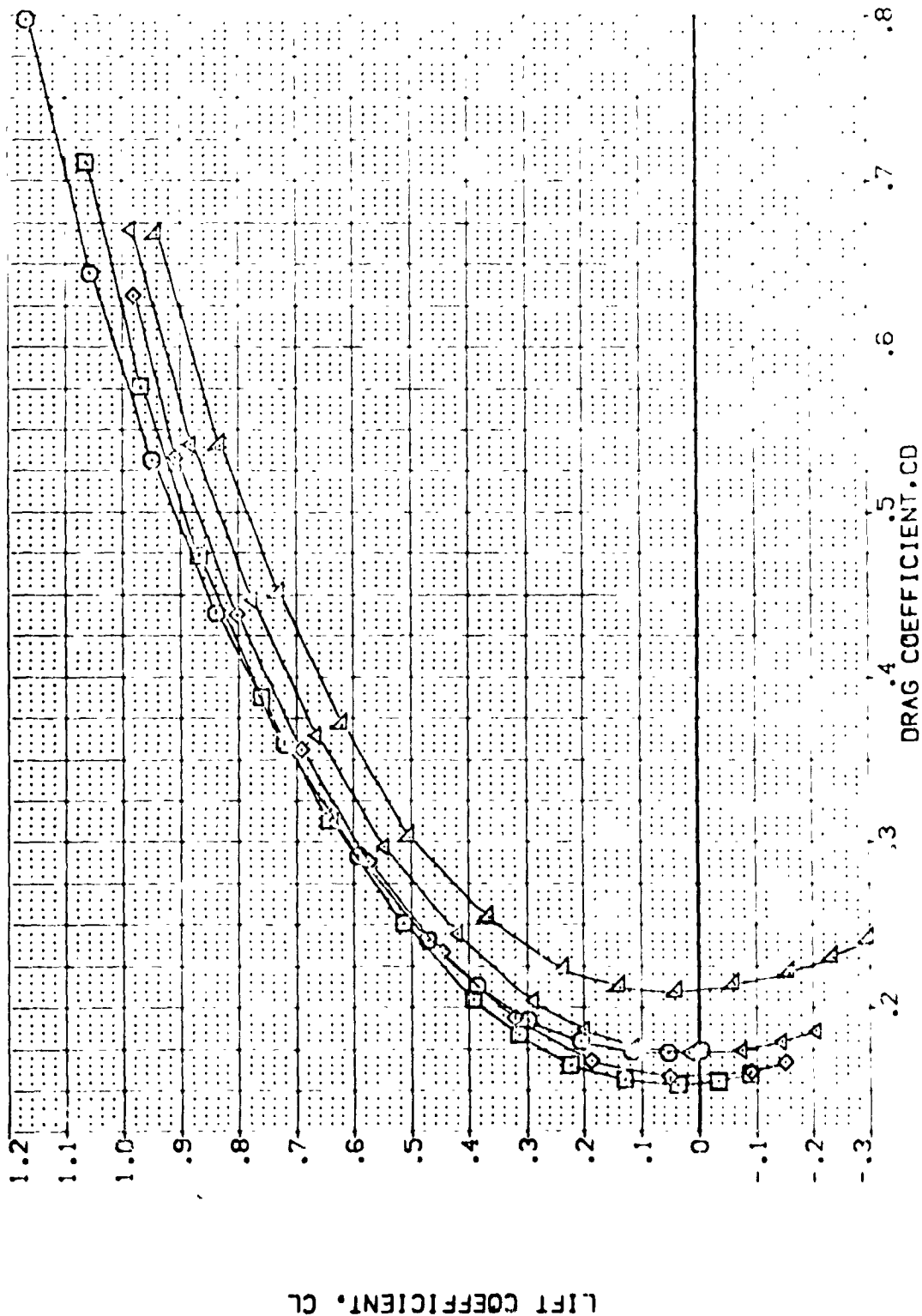


FIG. 7 ELEVON EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON.	RV/L	ELEVON	AILERON	BOFLAP	SPODBK	REFERENCE INFORMATION
(TE003)	ARC 97-747 CAS38 B C M F VI	Y	RV/L	15.000	.000	-11.700	55.000	SPEE 2.4210 SQ.FT.
(TE011)	ARC 97-747 CAS33 B C M F VI	Y	RV/L	.000	.000	-11.700	55.000	LEFF 14.2640 IN.
(TE002)	ARC 97-747 CAS33 B C M F VI	Y	RV/L	-10.000	.000	-11.700	55.000	LEFF 20.1604 IN.
(TE019)	ARC 97-747 CAS33 B C M F VI	Y	RV/L	-20.000	.000	-11.700	55.000	LEFF 32.0310 IN.
(TE023)	ARC 97-747 CAS33 B C M F VI	Y	RV/L		.000	-11.700	55.000	LEFF 11.0000 IN.
								SCALE .0000

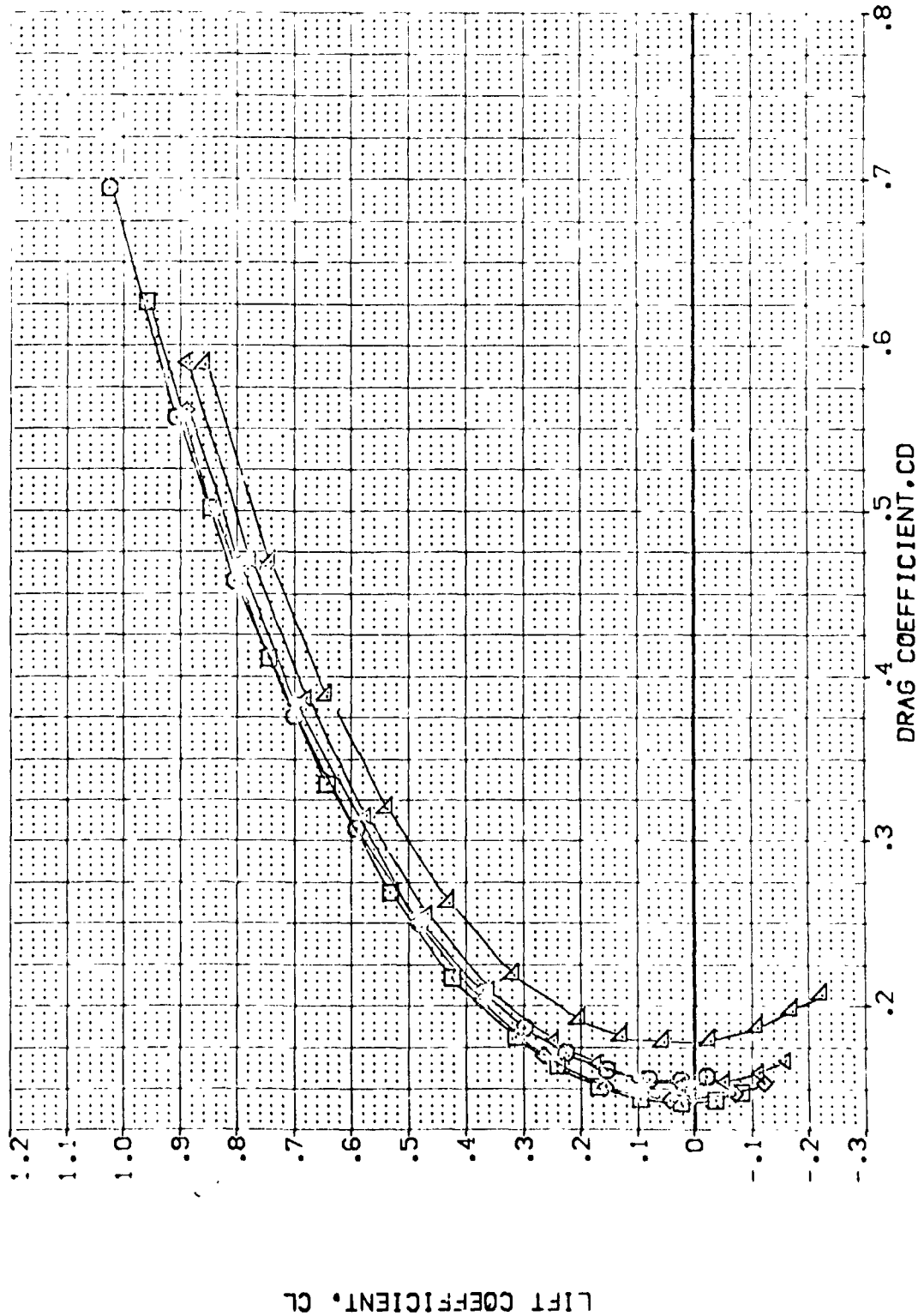


FIG. 7 ELEVON EFFECTS

(B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPDRBK	REFERENCE INFORMATION
{TEK003}	ARC 97-747 DAS33 B C M F VI V	15.000	.000	-11.700	55.000	SREF 2.4210 SQ.FT.
{TEK011}	ARC 97-747 DAS33 B C M F VI V	.000	.000	-11.700	55.000	LRREF 14.2440 IN.
{TEK002}	ARC 97-747 DAS33 B C M F VI V	-10.000	.000	-11.700	55.000	SRREF 23.1004 IN.
{TEK013}	ARC 97-747 DAS33 B C M F VI V	-20.000	.000	-11.700	55.000	XRREF 32.0010 IN.
{TEK023}	ARC 97-747 DAS33 B C M F VI V		.000	-11.700	55.000	YMRP 11.2600 IN.
						ZMRP .0000 IN.
						SCALE .0000

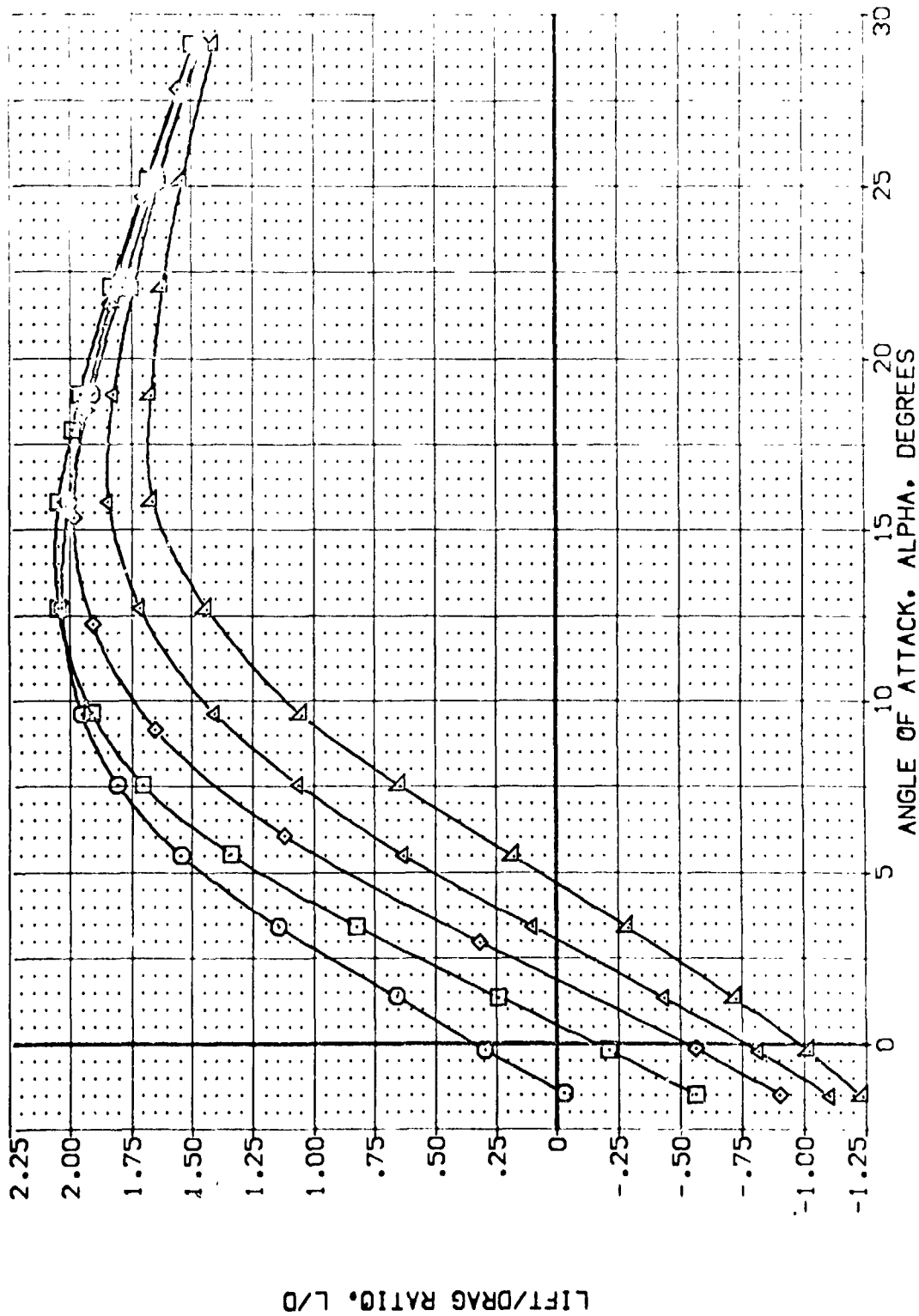


FIG. 7 ELEVON EFFECTS

[A]MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOG LAP	SPOILER	REFERENCE INFORMATION
[1E-003]	APC 97-747 C4533 B C M F V	15.000	.000	-11.700	55.000	SPKE 2.4210 SC.FT.
[1E-011]	APC 97-747 C4533 B C M F V	.000	.000	-11.700	55.000	UPPE 14.7440 IN.
[1E-002]	APC 97-747 C4533 B C M F V	-10.000	.000	-11.700	55.000	SPKE 23.1004 IN.
[1E-019]	APC 97-747 C4533 B C M F V	-20.000	.000	-11.700	55.000	UPPE 32.1010 IN.
[1E-023]	APC 97-747 C4533 B C M F V	-20.000	.000	-11.700	55.000	UPPE 32.1010 IN.
						YMP 11.2000 IN.
						SCALE 10.000

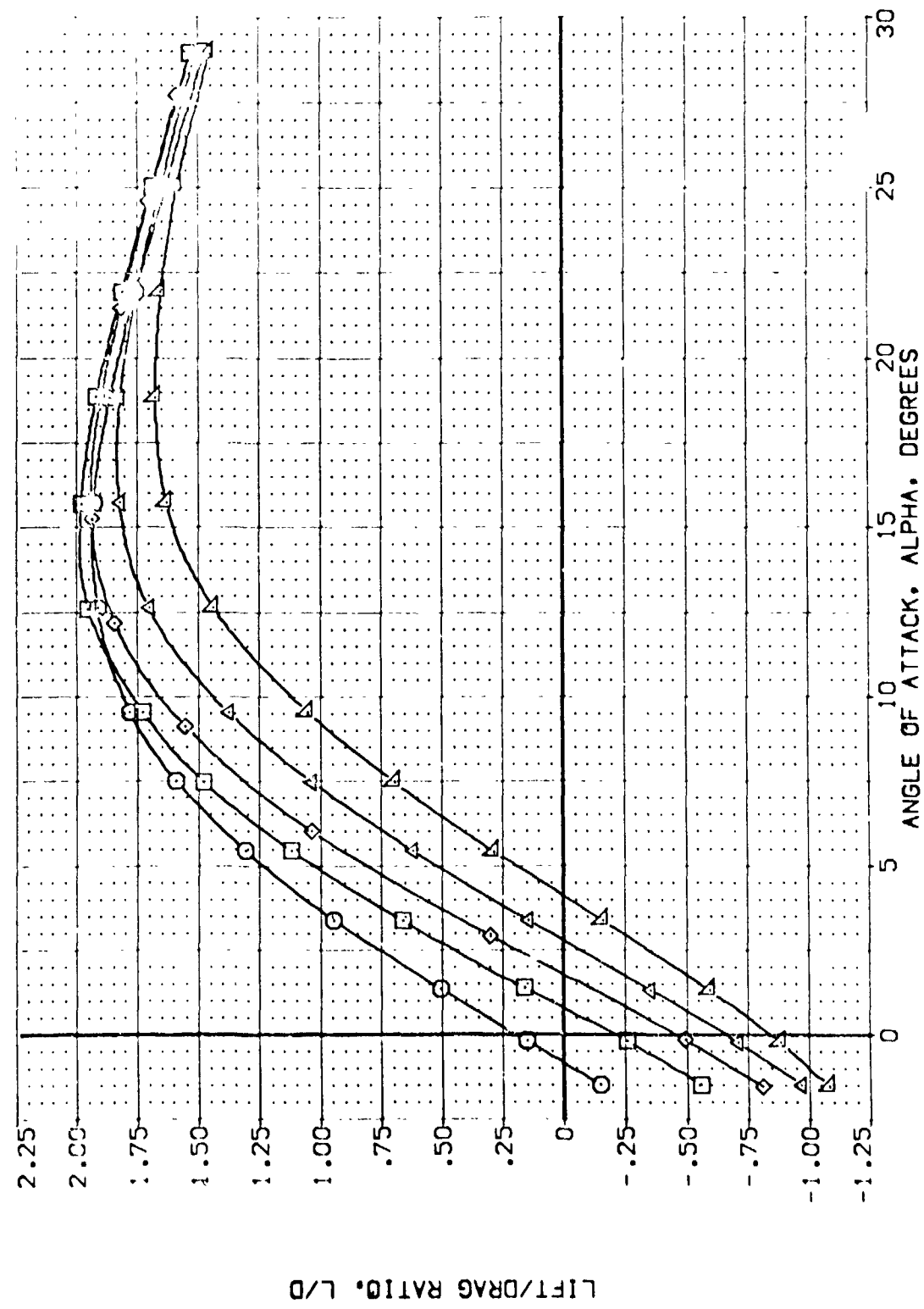


FIG. 7 ELEVON EFFECTS

(B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPDRBK	REFERENCE INFORMATION
[AEK003]	ARC 97-747 DAS33 B C M F VI V	15.000	.000	-11.700	55.000	SREF 2.4210 53.57
[AEK011]	ARC 97-747 DAS33 B C M F VI V	.000	.000	-11.700	55.000	LREF 14.2440
[AEK002]	ARC 97-747 DAS33 B C M F VI V	-10.000	.000	-11.700	55.000	BREF 23.1504
[AEK019]	ARC 97-747 DAS33 B C M F VI V	-20.000	.000	-11.700	55.000	XMRP 32.5010
[AEK023]	ARC 97-747 DAS33 B C M F VI V	-20.000	.000	-11.700	55.000	YMRP .0000
						ZMRP 11.2500
						SCALE .0000

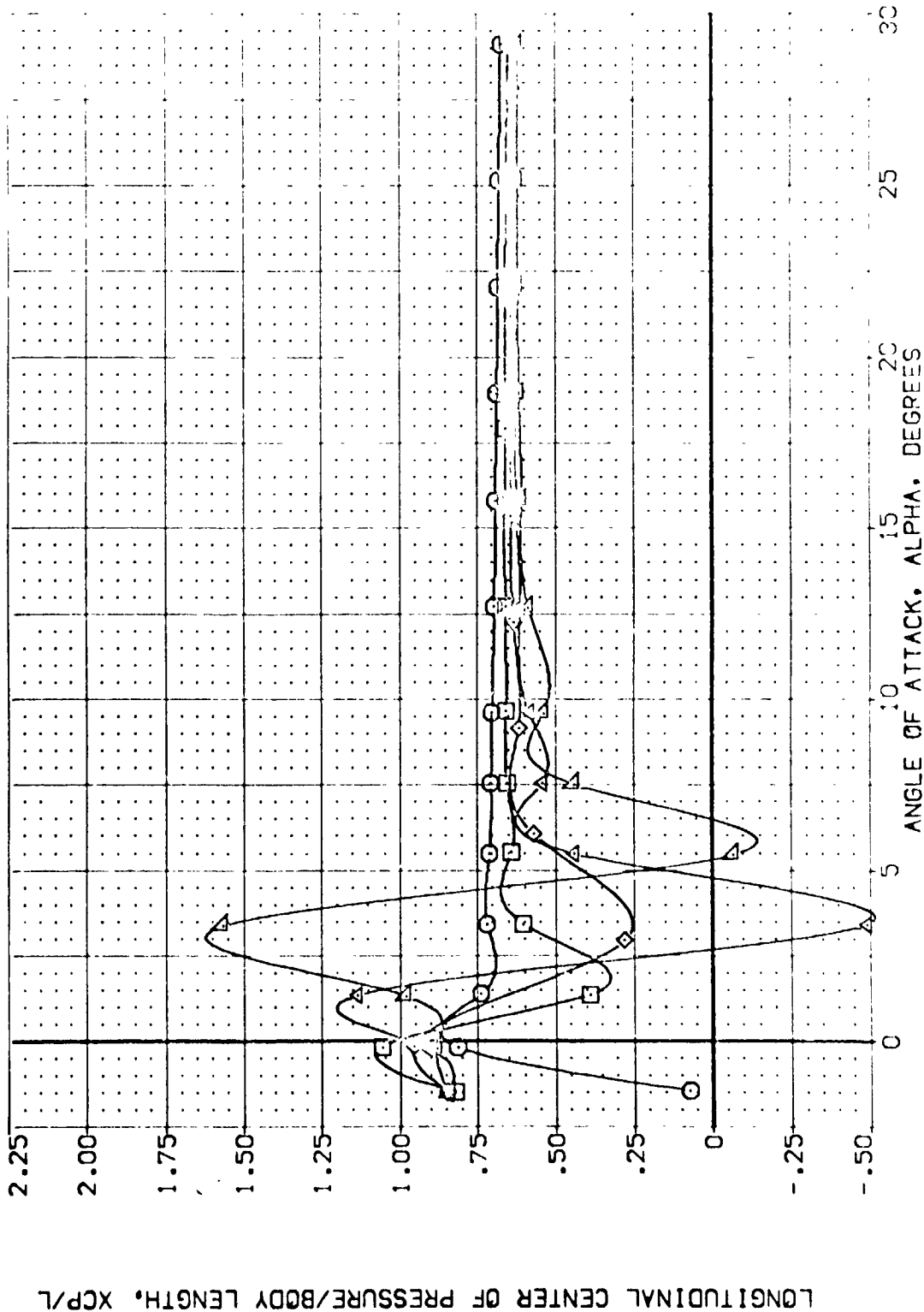


FIG. 7 ELEVON EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPDRK	REFERENCE INFORMATION
[AEP003]	ARC 97-747 CAS33 B C M F VI	15.000	.000	-11.700	55.000	SREF 2.4210 SQ.FT.
[AEP011]	ARC 97-747 CAS33 B C M F VI	.000	.000	-11.700	55.000	LREF 14.2440 IN.
[AEP002]	ARC 97-747 CAS33 B C M F VI	-10.000	.000	-11.700	55.000	BREF 29.1004 IN.
[AEP019]	ARC 97-747 CAS33 B C M F VI	-20.000	.000	-11.700	55.000	XREF 32.5910 IN.
[AEP023]	ARC 97-747 CAS33 B C M F VI	-20.000	.000	-11.700	55.000	YREF 11.8550 IN.
						SCALE .0000

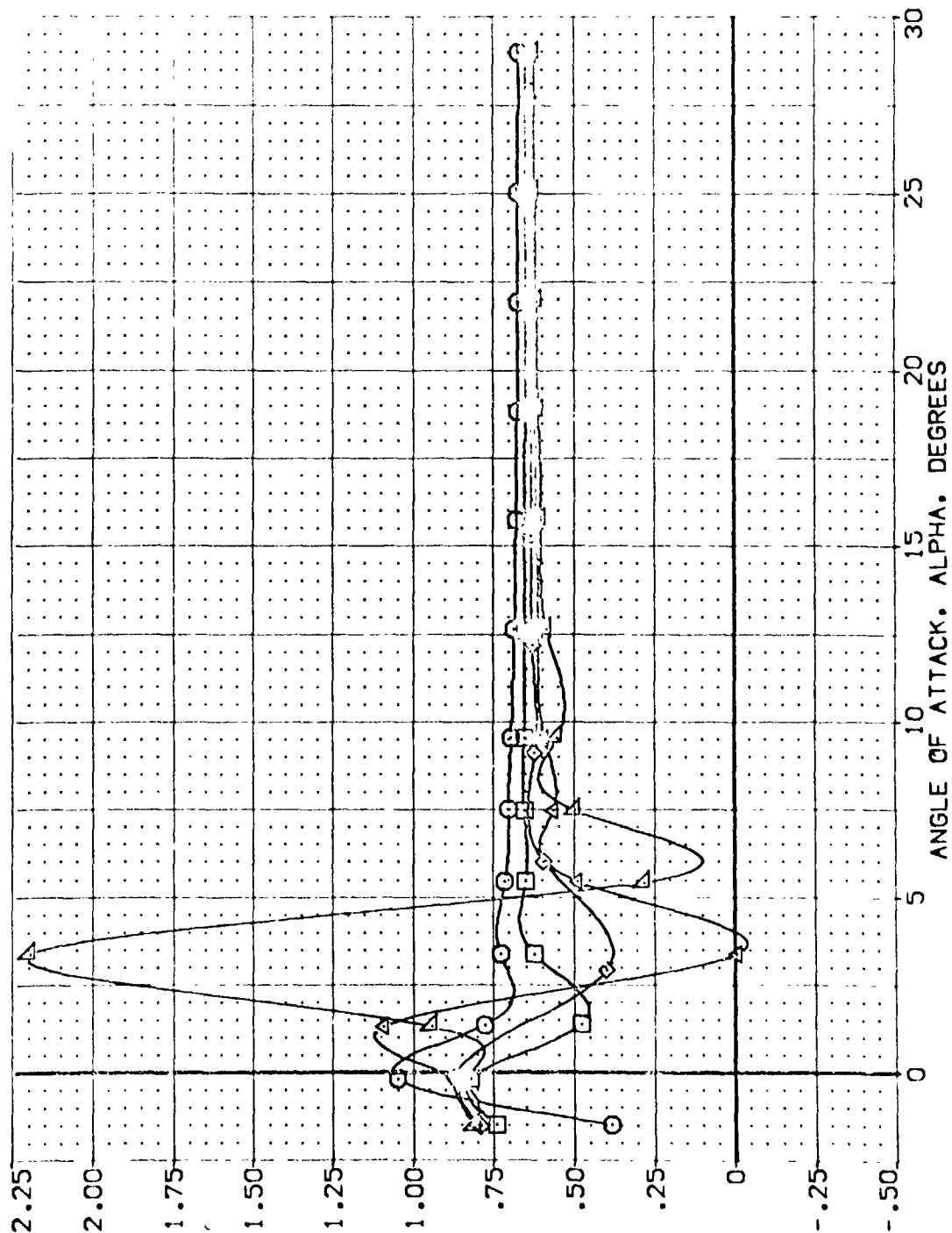


FIG. 7 ELEVON EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	AILRON	BOFLAP	SPOSRK	REFERENCE INFORMATION
[VER003]	ARC 97-747 CAS33 B C M F VI V	15.000	.000	-11.700	55.000	SPREF 2.4210 SQ.F.
[VER002]	ARC 97-747 CAS33 B C M F VI V	-10.000	.000	-11.700	55.000	LPREF 14.2460
[VER0019]	ARC 97-747 CAS33 B C M F VI V	-20.000	.000	-11.700	55.000	EPREF 20.1000
[VER0023]	ARC 97-747 CAS33 B C M F VI V	-20.000	.000	-11.700	55.000	XPREF 32.8370
						YMPREF .0000
						ZMPREF 11.7000
						SCALE .0000

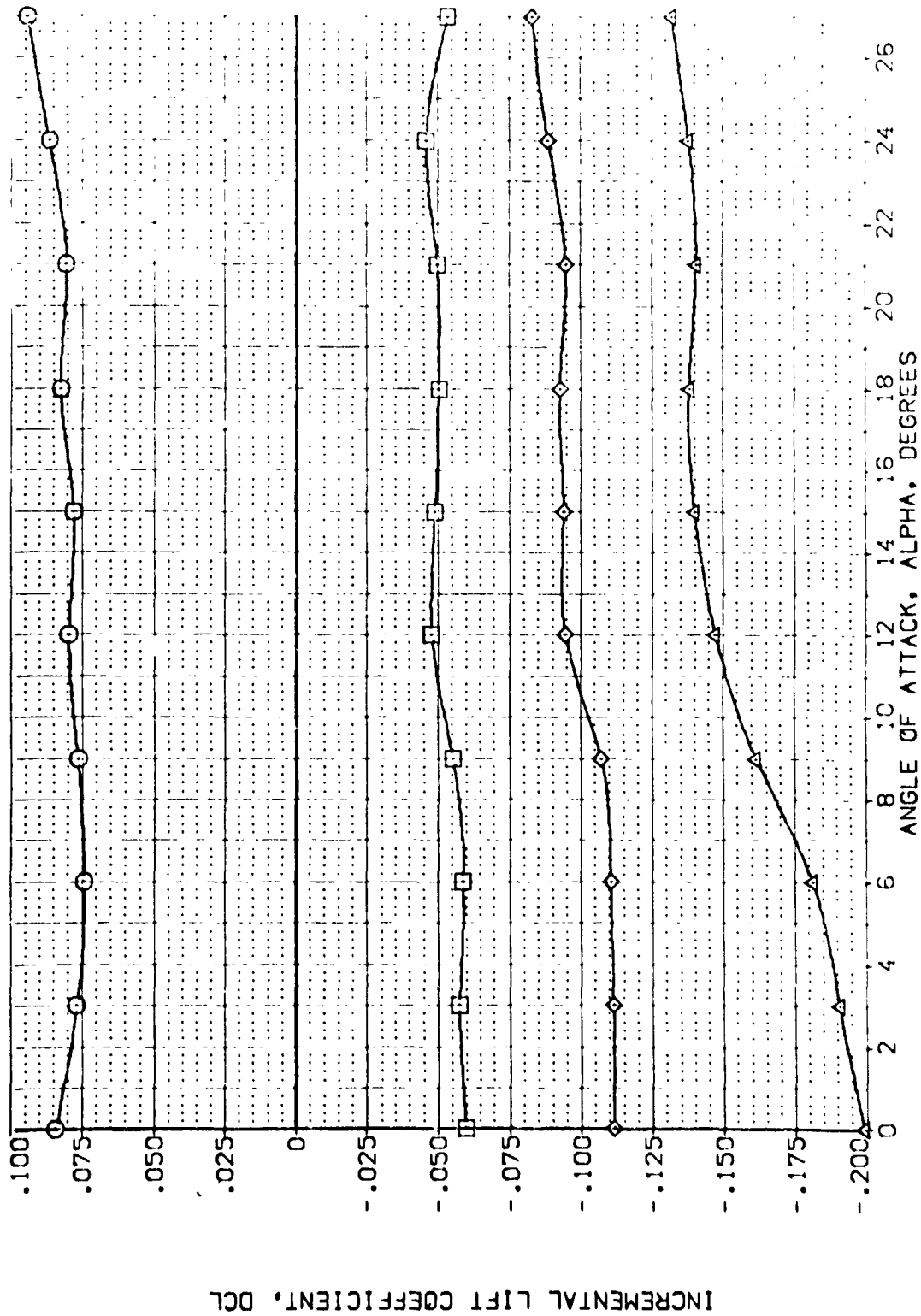


FIG. 7 ELEVON EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	AIRFOIL	BOFLAP	SPORON	SPR	REFERENCE INFORMATION
(P003)	ABC 97-747 C1533 B C M F V	15.000	.000	-11.700	55.000	2.4210	00.00
(P002)	ABC 97-747 C1533 B C M F V	-10.000	.000	-11.700	55.000	14.2140	00.00
(P018)	ABC 97-747 C1533 B C M F V	-20.000	.000	-11.700	55.000	20.1200	00.00
(P023)	ABC 97-747 C1533 B C M F V	-20.000	.000	-11.700	55.000	32.1200	00.00
						11.2000	00.00
						11.2000	00.00

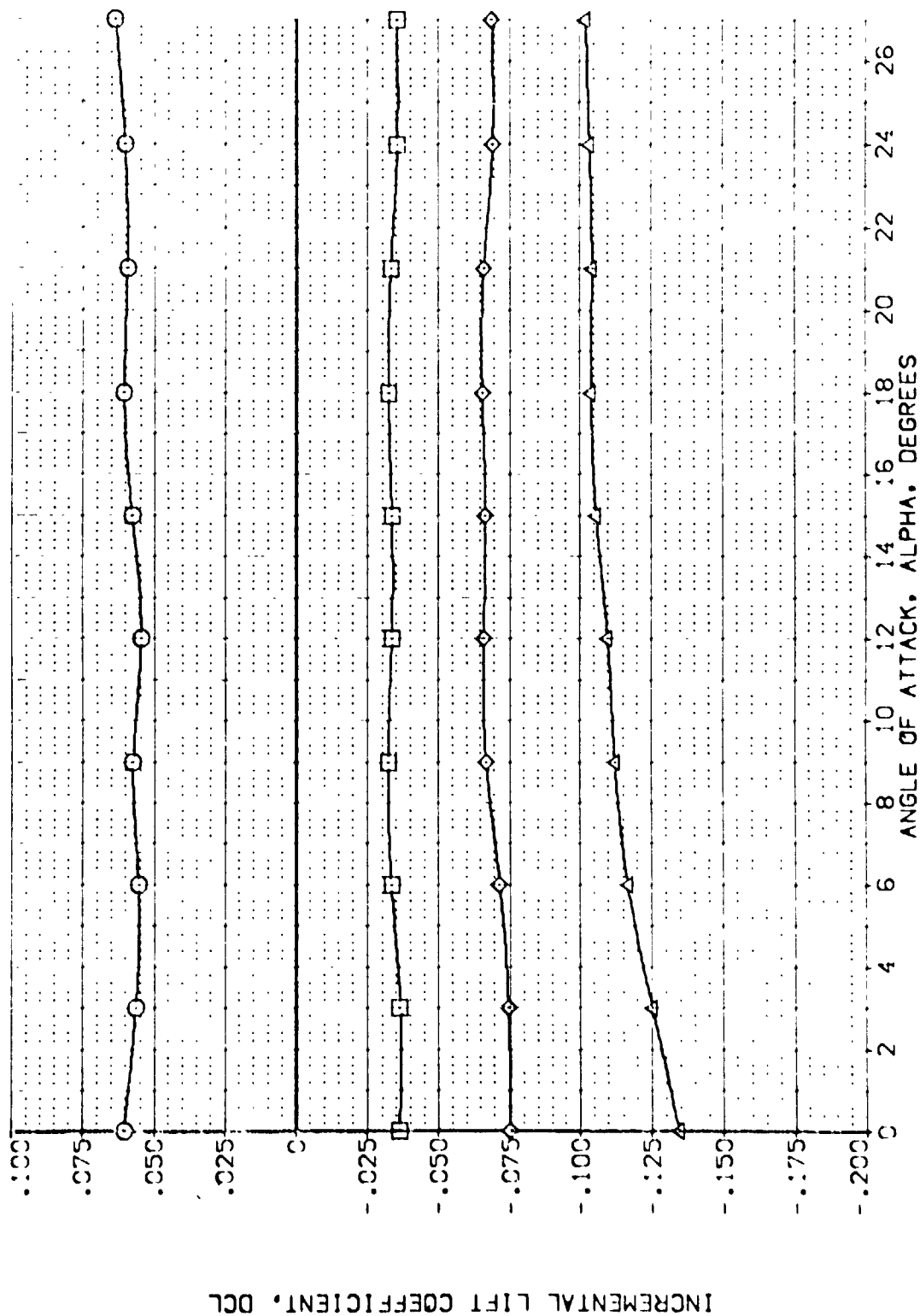


FIG. 7 ELEVON EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	AIRLON	BOFLAP	SPOORK	REFERENCE INFORMATION
[VEP003]	ARC 97-747 BA533 B C M F VI V	15.000	.000	-11.700	55.000	SREF 2.4210 52.57
[VEP002]	ARC 97-747 BA533 B C M F VI V	-10.000	.000	-11.700	55.000	LREF 14.2410 52.57
[VEP019]	ARC 97-747 BA533 B C M F VI V	-20.000	.000	-11.700	55.000	BREF 20.1194 52.57
[VEP023]	ARC 97-747 BA533 B C M F VI V	-20.000	.000	-11.700	55.000	YREF 32.1194 52.57
						YMAX 11.2000 52.57
						SCALE 1.0000 52.57

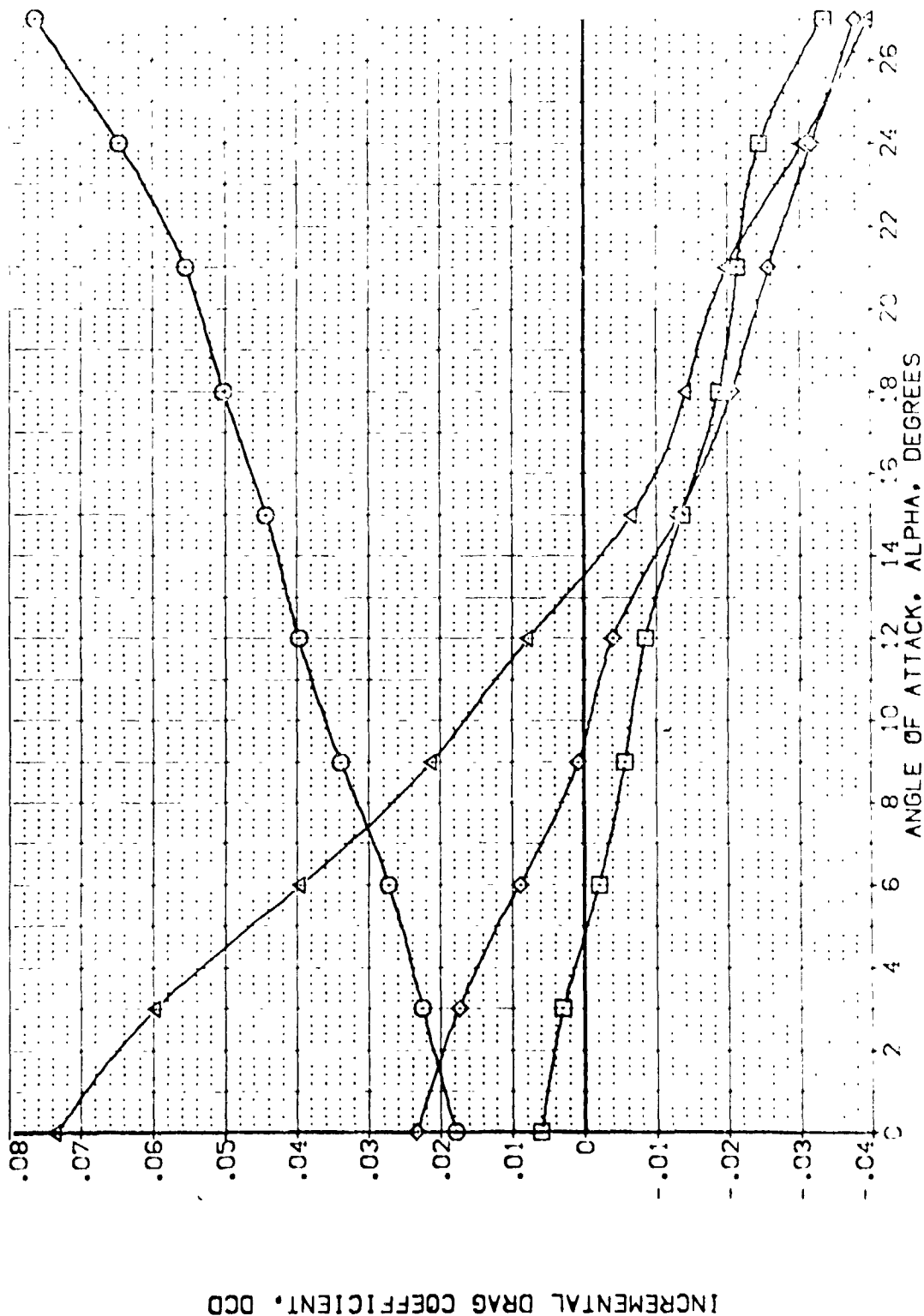


FIG. 7 ELEVON EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	ALL DATA	BOF LAP	SPOON	REFERENCE INFORMATION
APC 97-747	APC 97-747	15.000	.000	11.700	55.000	SPRE 2.4210
APC 97-747	APC 97-747	15.000	.000	11.700	55.000	SCALE 10.000
APC 97-747	APC 97-747	15.000	.000	11.700	55.000	SCALE 10.000
APC 97-747	APC 97-747	15.000	.000	11.700	55.000	SCALE 10.000

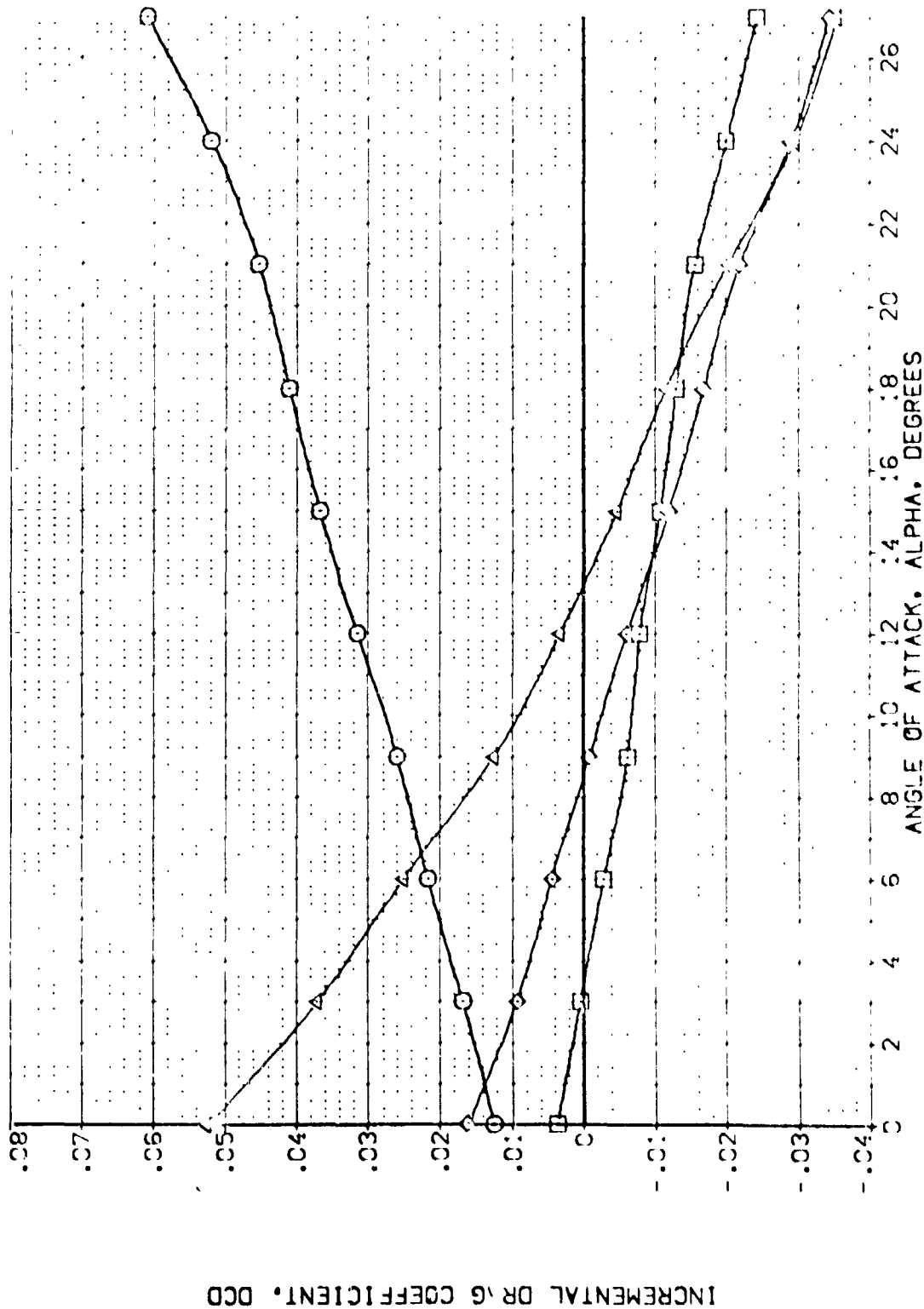


FIG. 7 ELEVON EFFECTS

(B) VACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	ALIPON	BOFLAP	SPOBOM	REFERENCE INFORMATION
[VEP003]	ARC 97-747 CASE3 B C M F VI	15.000	.000	-11.700	55.000	SPRF 2.4210
[VEP002]	ARC 97-747 CASE3 B C M F VI	-10.000	.000	-11.700	55.000	LOVE 14.1270
[VEP019]	ARC 97-747 CASE3 B C M F VI	-20.000	.000	-11.700	55.000	EMVE 20.1000
[VEP023]	ARC 97-747 CASE3 B C M F VI	-20.000	.000	-11.700	55.000	EMVE 32.1000
						PMAP 11.2000
						SCALE .0001

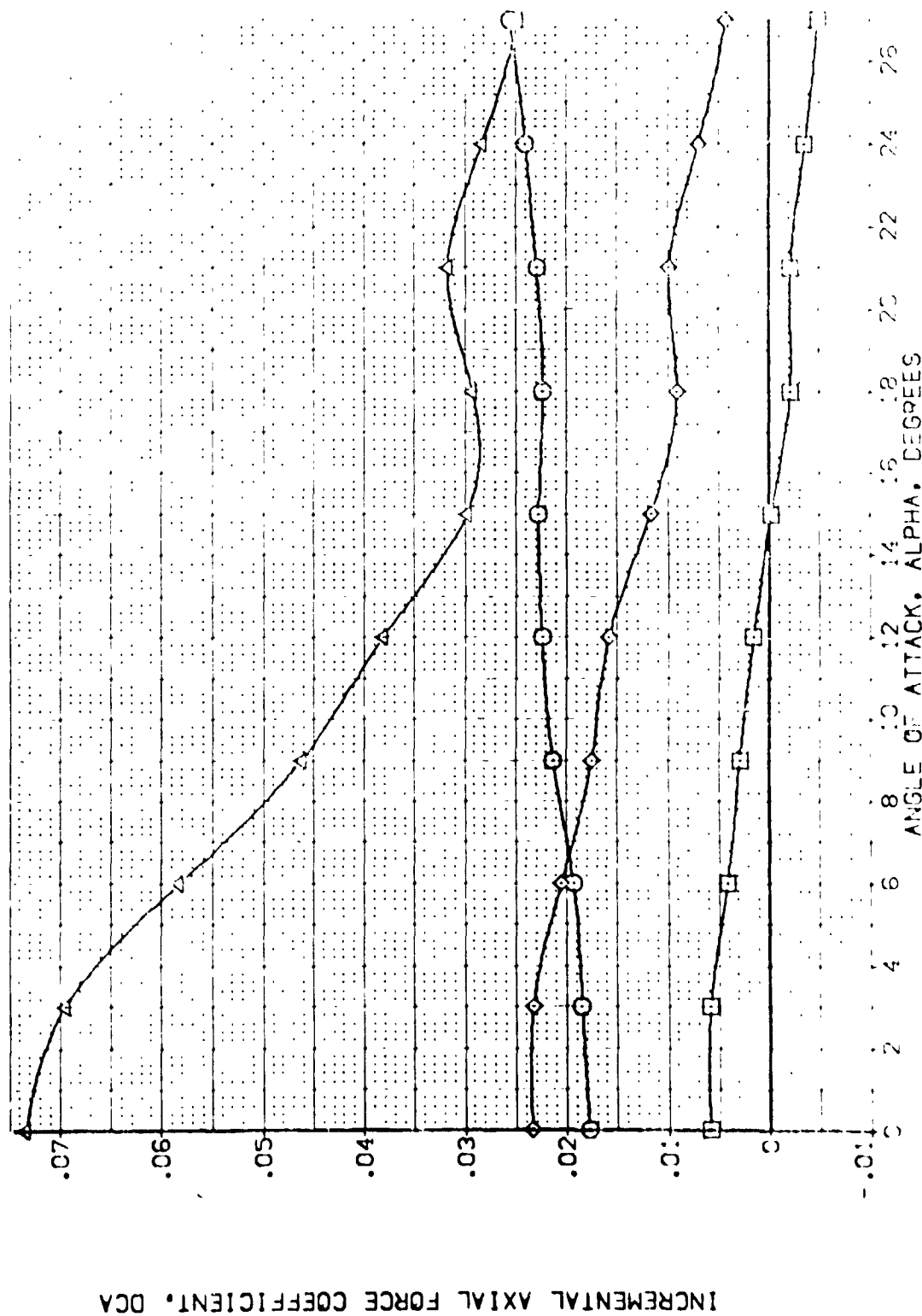


FIG. 7 ELEVON EFFECTS

(A) MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	AIRLON	BOFLAP	SPOBRN	REFERENCE INFORMATION
(VEP023)	ARC 97-747 81503 B C F V	15.000	.000	-11.700	55.000	SRPF 2.4210
(VEP027)	ARC 97-747 81503 B C F V	-10.000	.000	-11.700	55.000	LFEE 14.2440
(VEP019)	ARC 97-747 81503 B C F V	-20.000	.000	-11.700	55.000	SRPF 20.1000
(VEP023)	ARC 97-747 81503 B C F V	-20.000	.000	-11.700	55.000	SRPF 32.1000
						YREF 11.2500
						YREF 11.2500
						SCALE 10.000

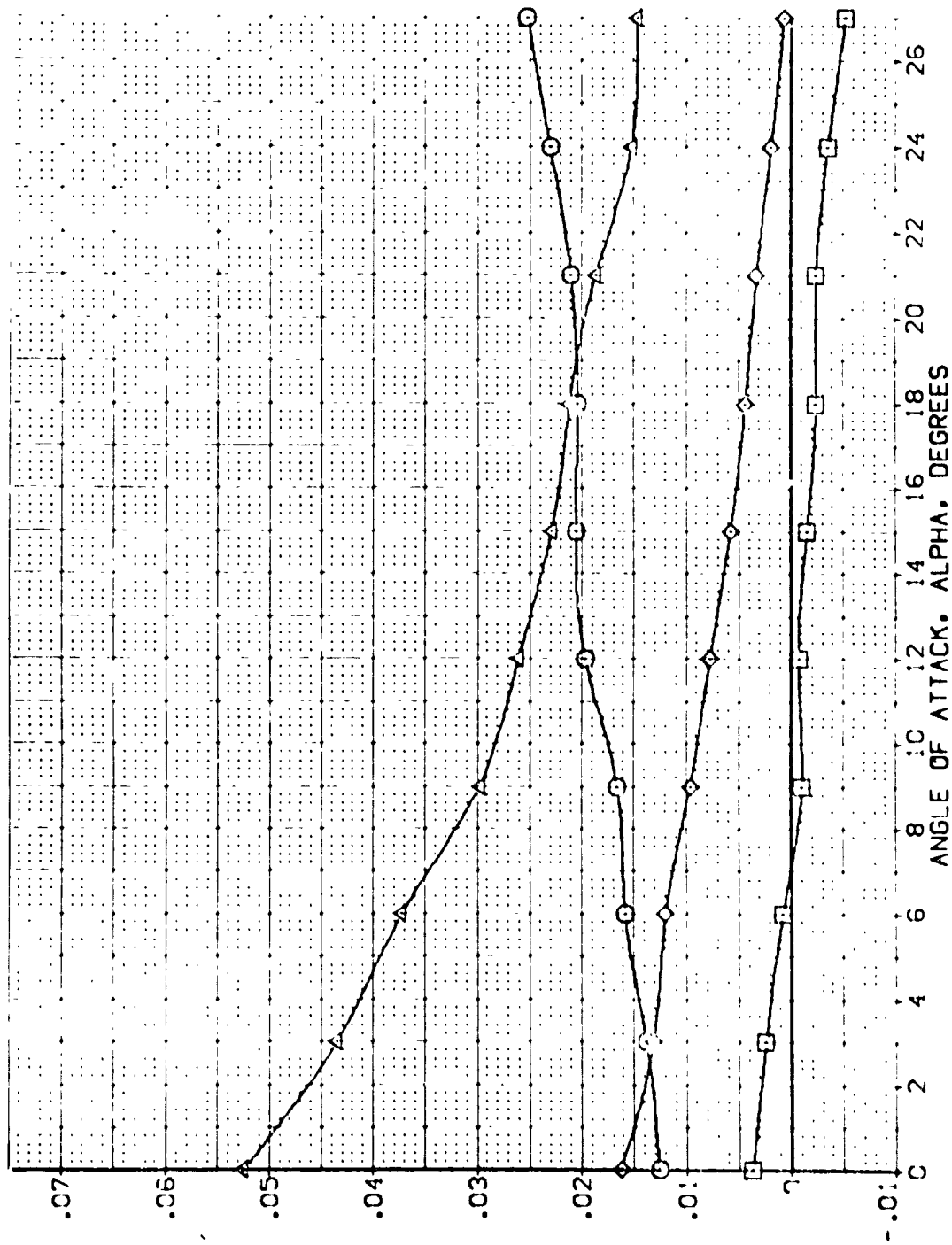


FIG. 7 ELEVON EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL: [VEK003] [VEK002] [VEK001] [VEK000]

CONFIGURATION DESCRIPTION: ARC 97-747 BA533 B C M F V1 V ARC 97-747 BA533 B C M F V1 V ARC 97-747 BA533 B C M F V1 V ARC 97-747 BA533 B C M F V1 V

DE: 15.000 -10.000 -20.000 -20.000

AILRON: .000 .000 .000 .000

BOFLAP: -11.700 -11.700 -11.700 -11.700

SPOORX: 55.000 55.000 55.000 55.000

REFERENCE INFORMATION: SREF 2.4210 50.000 LREF 14.2000 100.000 DREF 20.0000 100.000 XREF 32.0000 100.000 YREF 11.0000 100.000 ZREF 11.0000 100.000 SCALE .0000

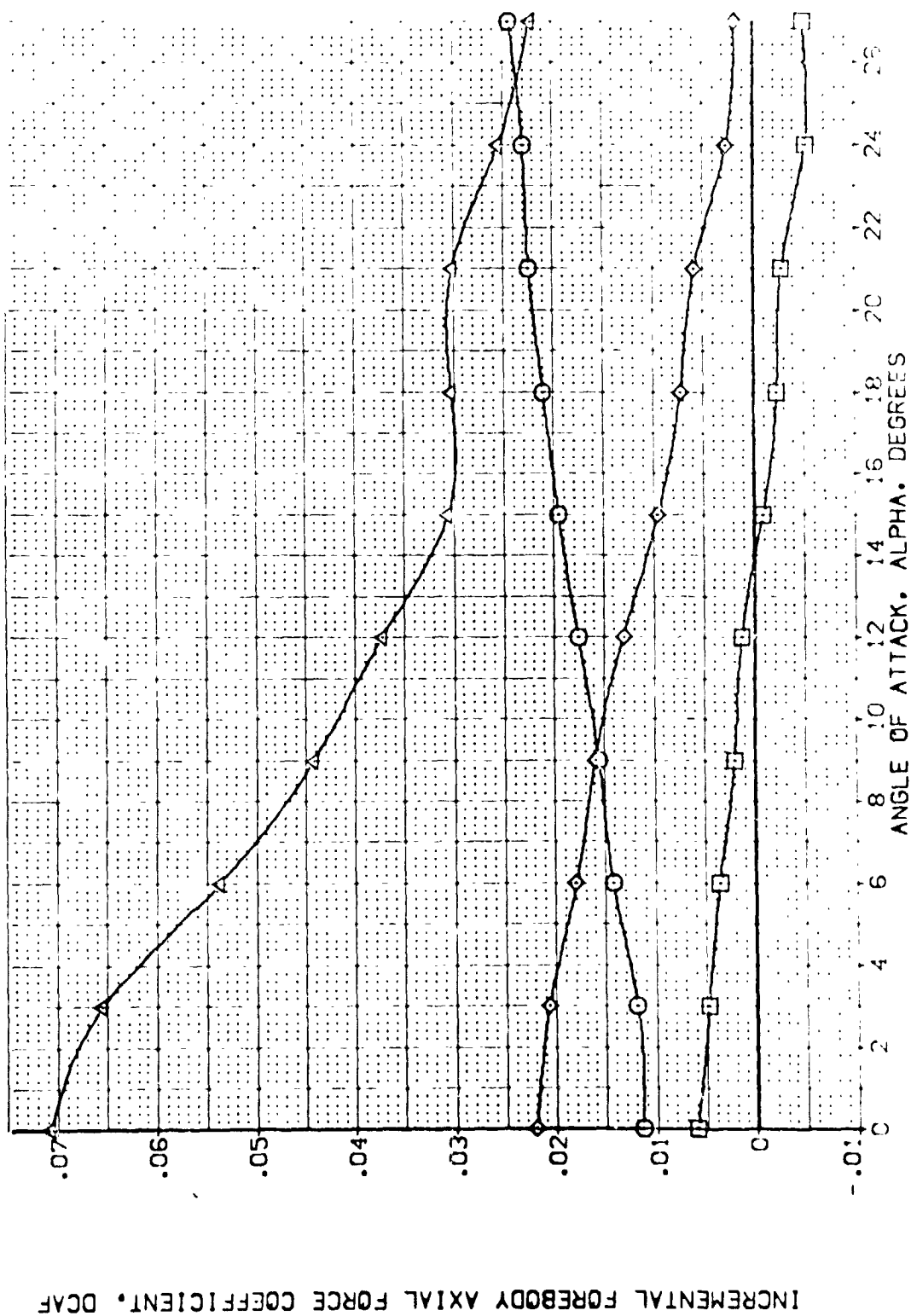


FIG. 7 ELEVON EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	AIRLON	BOFLAP	SPDRM	REFERENCE INFORMATION
(VEP003)	ARC 97-747 C4538 B C M F V1	15.000	.000	-11.700	55.000	SREF 2.4210 SQ.FT.
(VEP002)	ARC 97-747 C4523 B C M F V1	-10.000	.000	-11.700	55.000	LPREF 14.2440 IN.
(VEP019)	ARC 97-747 C4533 B C M F V1	-20.000	.000	-11.700	55.000	EPREF 20.1004 IN.
(VEP023)	ARC 97-747 C4538 B C M F V1	-20.000	.000	-11.700	55.000	XPREF 32.2310 IN.
					MMED 0.000	MMED 0.000
					SCALE 11.2000	SCALE 11.2000

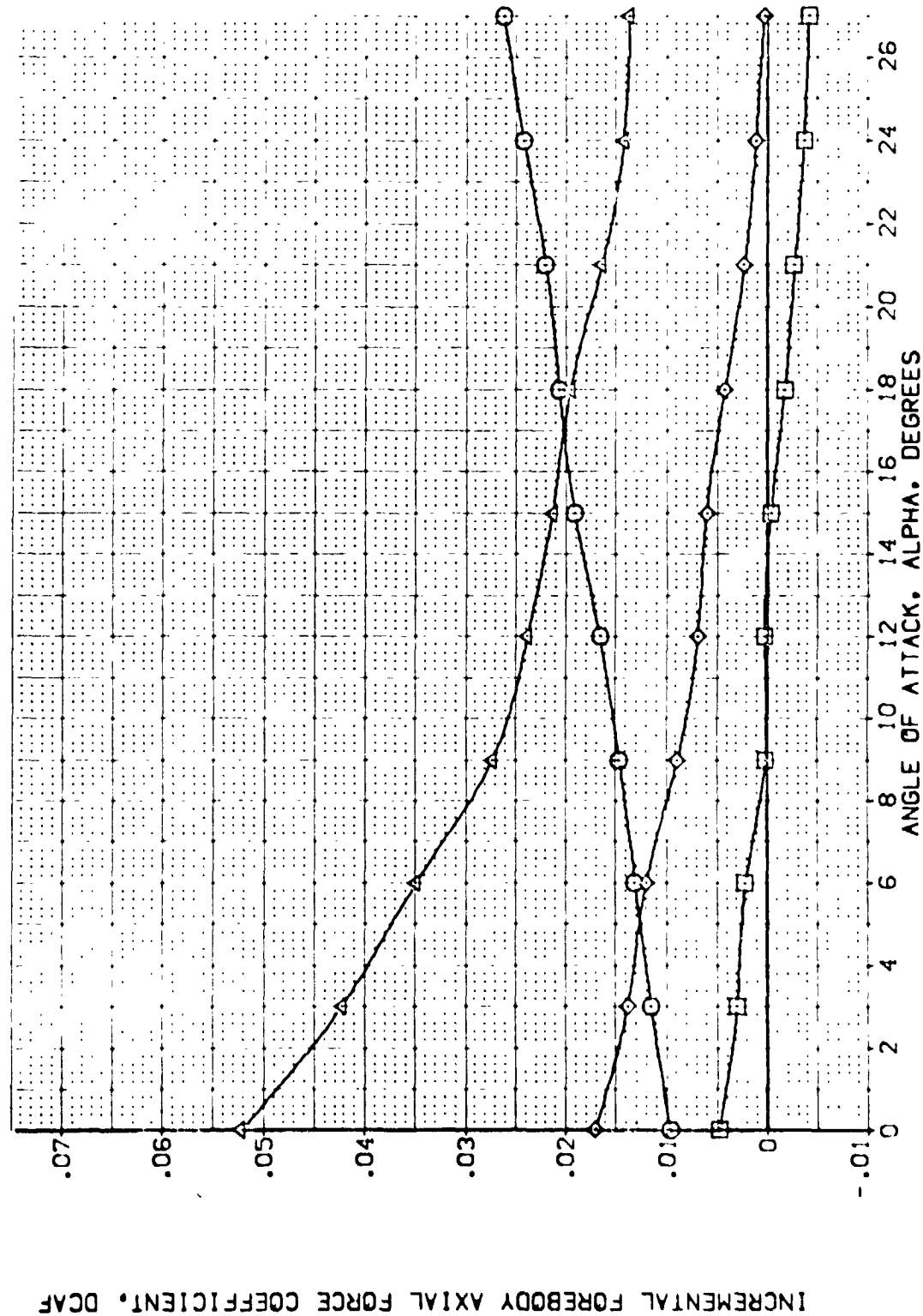


FIG. 7 ELEVON EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	DE	AIRLON	BDF LAP	SPDRM	REFERENCE INFORMATION
[VEP003]	ARC 97-747	04530 B C M F V	15.000	.000	-11.700	55.000	SREF 2.4210
[VEP002]	ARC 97-747	04530 B C M F V	-10.000	.000	-11.700	55.000	LREF 14.7040
[VEP019]	ARC 97-747	04530 B C M F V	-20.000	.000	-11.700	55.000	SREF 28.3000
[VEP023]	ARC 97-747	04530 B C M F V		.000	-11.700	55.000	YREF 32.3000
							YREF 11.2500
							SCALE 1.0000

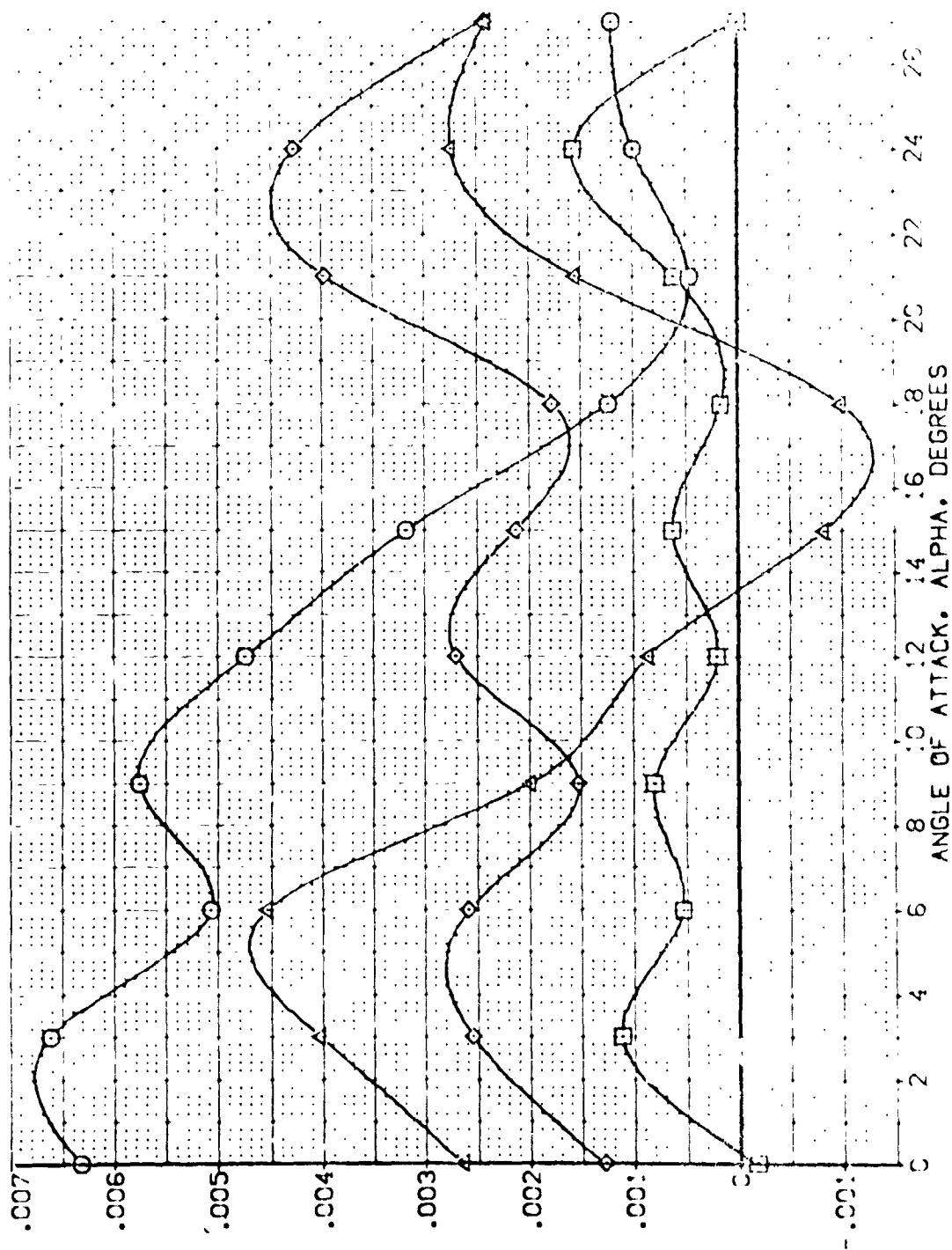


FIG. 7 ELEVON EFFECTS

(MACH = 1.60)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	AIRLON	BOFLAP	SPOBRK	REFERENCE INFORMATION
[VF-003]	ARC 97-747 CASE3 B C M F VI	15.000	.000	-11.700	55.000	SREF 2.4210
[VF-007]	ARC 97-747 CASE3 B C M F VI	-10.000	.000	-11.700	55.000	LREF 14.2410
[VF-019]	ARC 97-747 CASE3 B C M F VI	-20.000	.000	-11.700	55.000	EREF 29.1004
[VF-023]	ARC 97-747 CASE3 B C M F VI	-20.000	.000	-11.700	55.000	VMOD 32.0000
						ZMOD 11.0000
						SCALE .0000

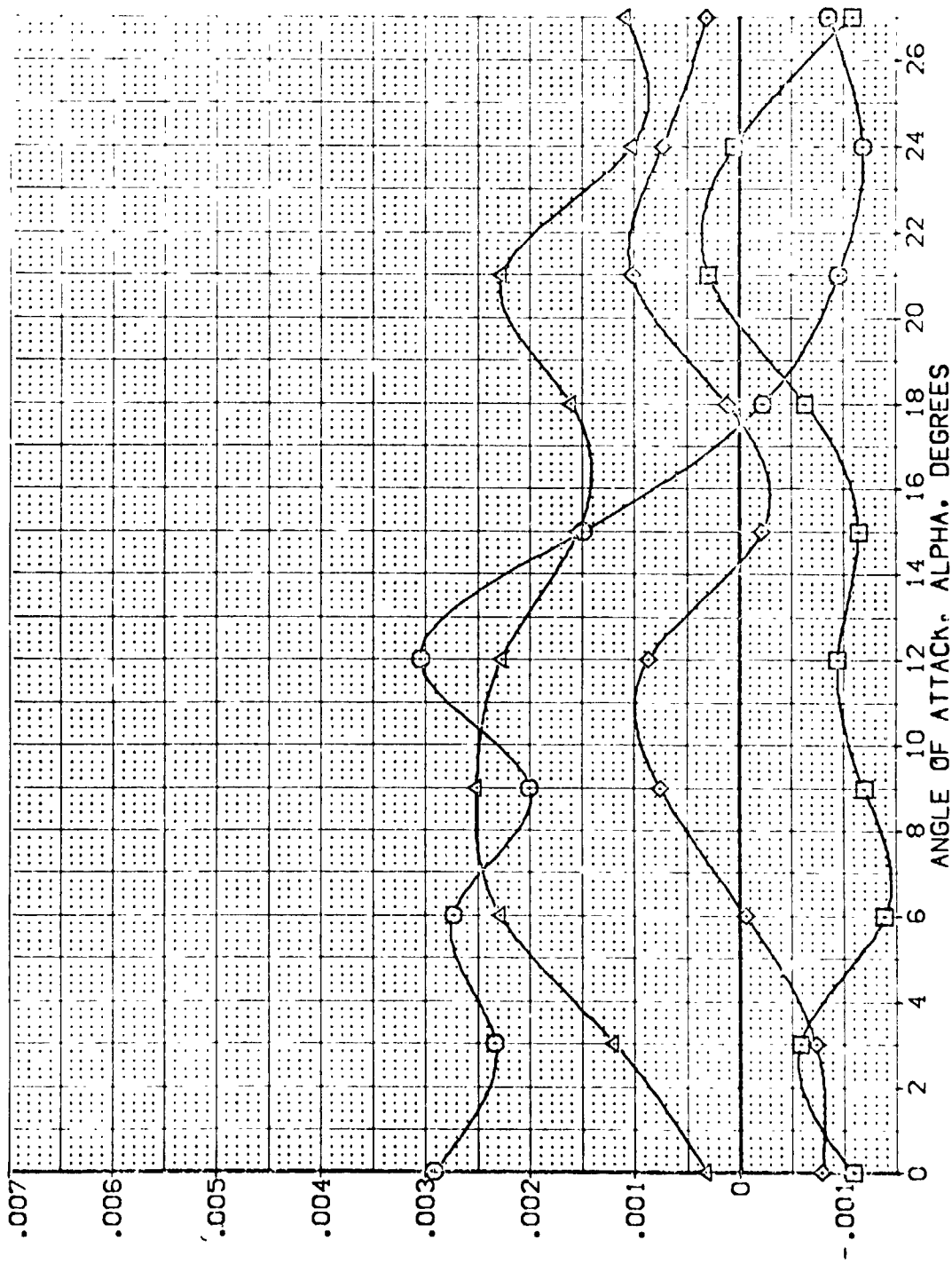


FIG. 7 ELEVON EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	AILRON	BD/LAP	SPOBRK	REFERENCE INFORMATION
(VER003)	ARC 97-747 OAS33 B C M F VI	15.000	.000	-11.700	55.000	SREF 2.4210
(VE002)	ARC 97-747 OAS33 B C M F VI	-10.000	.000	-11.700	55.000	LRCE 14.2640
(VE019)	ARC 97-747 OAS33 B C M F VI	-20.000	.000	-11.700	55.000	ESLE 20.1004
(VE023)	ARC 97-747 OAS33 B C M F VI	-20.000	.000	-11.700	55.000	ENPR 52.6000
						YREF 10.000
						ZREF 11.2500
						SCALE .0000

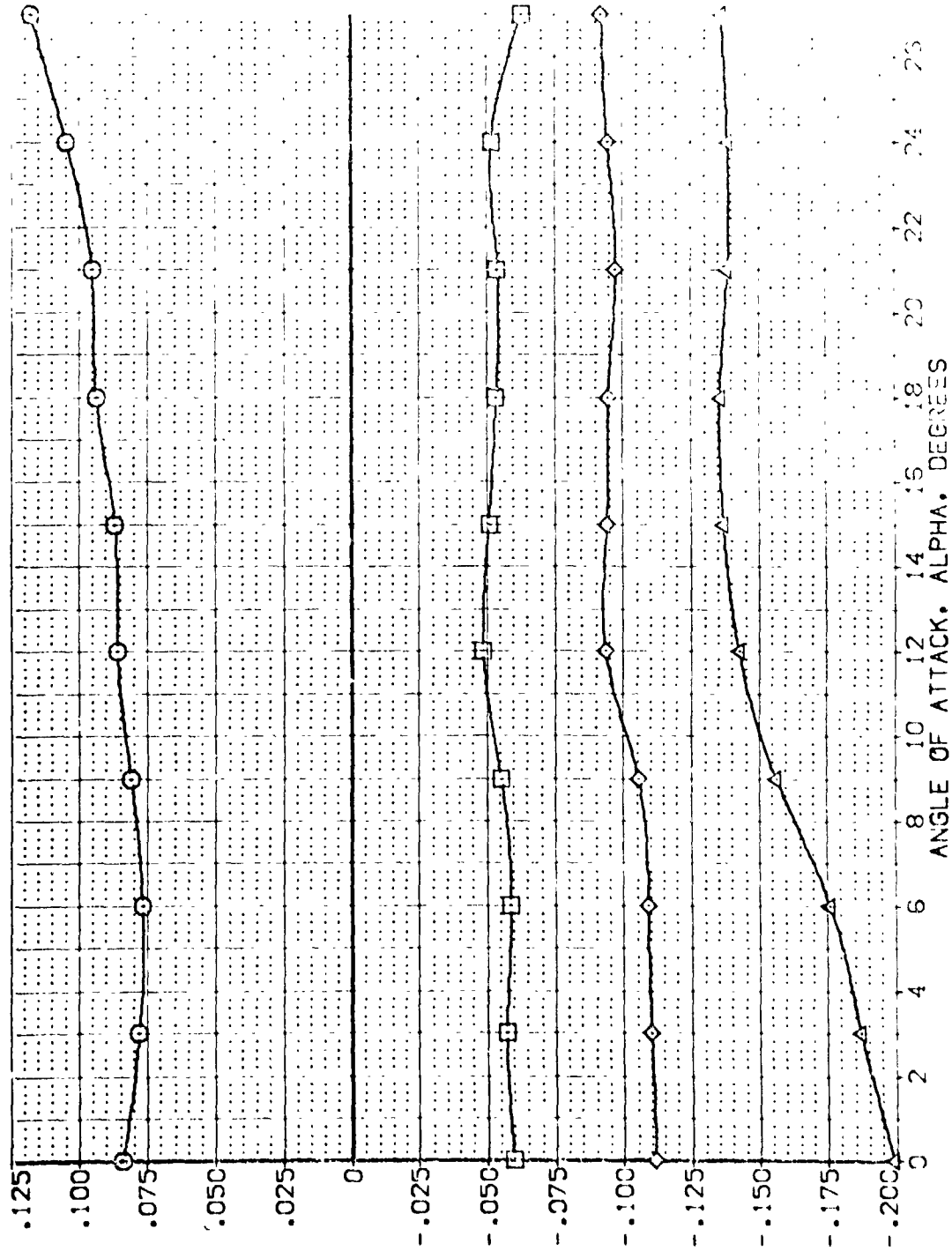


FIG. 7 ELEVON EFFECTS

(A)MACH = 1.60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	ALL PON	BOF LAP	SPORON	REFERENCE INFORMATION
150003	○	ABC 97-747 B 0.500	15.000	.000	-11.700	55.000	2.4210
150002	△	ABC 97-747 B 0.500	-10.000	.000	-11.700	55.000	14.2400
150001	◇	ABC 97-747 B 0.500	-20.000	.000	-11.700	55.000	20.1100
150000	□	ABC 97-747 B 0.500	-20.000	.000	-11.700	55.000	32.1100
							70.00
							20.00
							10.00
							5.00
							2.50
							1.25
							0.625

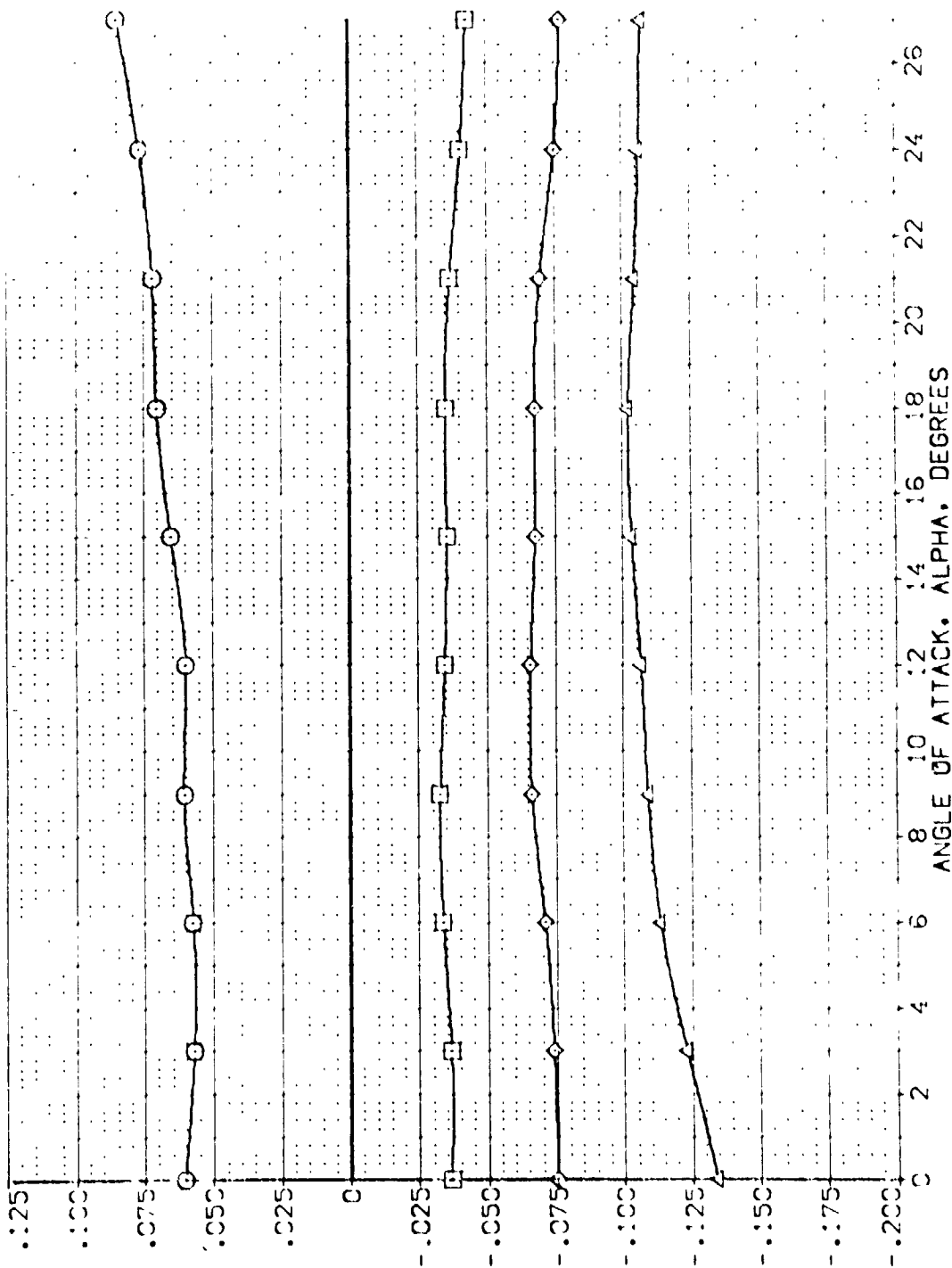


FIG. 7 ELEVON EFFECTS

(B) MAC = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	ATTEN	BOFLAP	SPDRW	REFERENCE INFORMATION
[VEK003]	ARC 97-747 D4533 B C M F V	15.000	.000	11.700	55.000	SREF 2.4210
[VEK002]	APC 97-747 D4533 B C M F V	-10.000	.000	11.700	55.000	LBREF 14.2140
[VEK019]	ARC 97-747 D4533 B C M F V	-20.000	.000	11.700	55.000	EBREF 20.1000
[VEK023]	ARC 97-747 D4533 B C M F V	-20.000	.000	11.700	55.000	YREF 32.1000
						ZREF 11.0000
						SCALE 11.0000

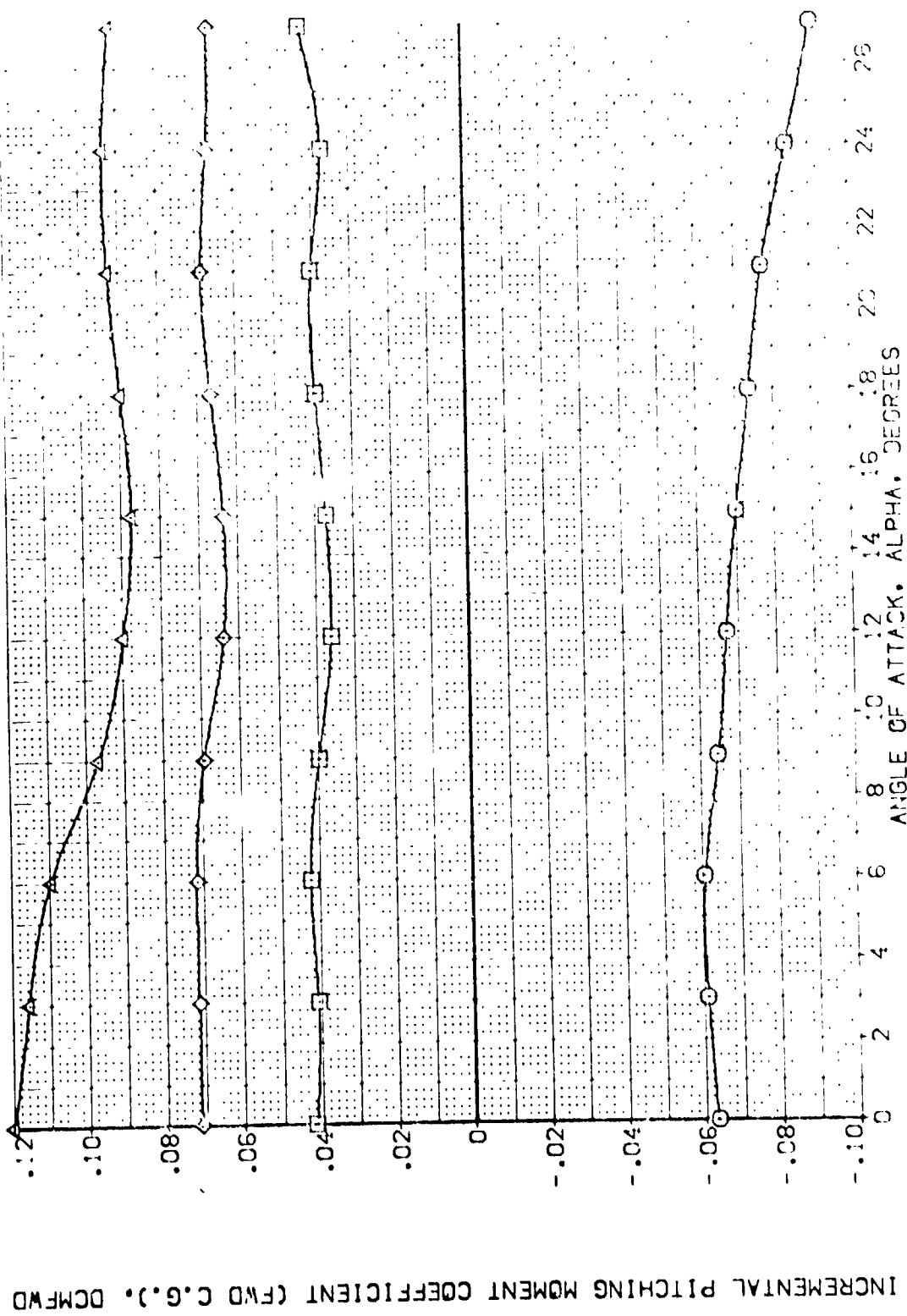


FIG. 7 ELEVON EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	AIRLON	BOFLAP	SPDRK	REFERENCE INFORMATION
{VEK003}	ARC 97-747 C4533 B C M F VI V	15.000	.000	-11.700	55.000	SREF 2.4210
{VEK002}	ARC 97-747 C4533 B C M F VI V	-10.000	.000	-11.700	55.000	LREF 14.2440
{VEK019}	ARC 97-747 C4533 B C M F VI V	-20.000	.000	-11.700	55.000	BREF 23.1004
{VEK023}	ARC 97-747 C4533 B C M F VI V	-20.000	.000	-11.700	55.000	XREF 32.3010
						YREF 11.2000
						ZREF 11.2000
						SCALE .0000

INCREMENTAL PITCHING MOMENT COEFFICIENT (FWD C.G.), DCMFWD

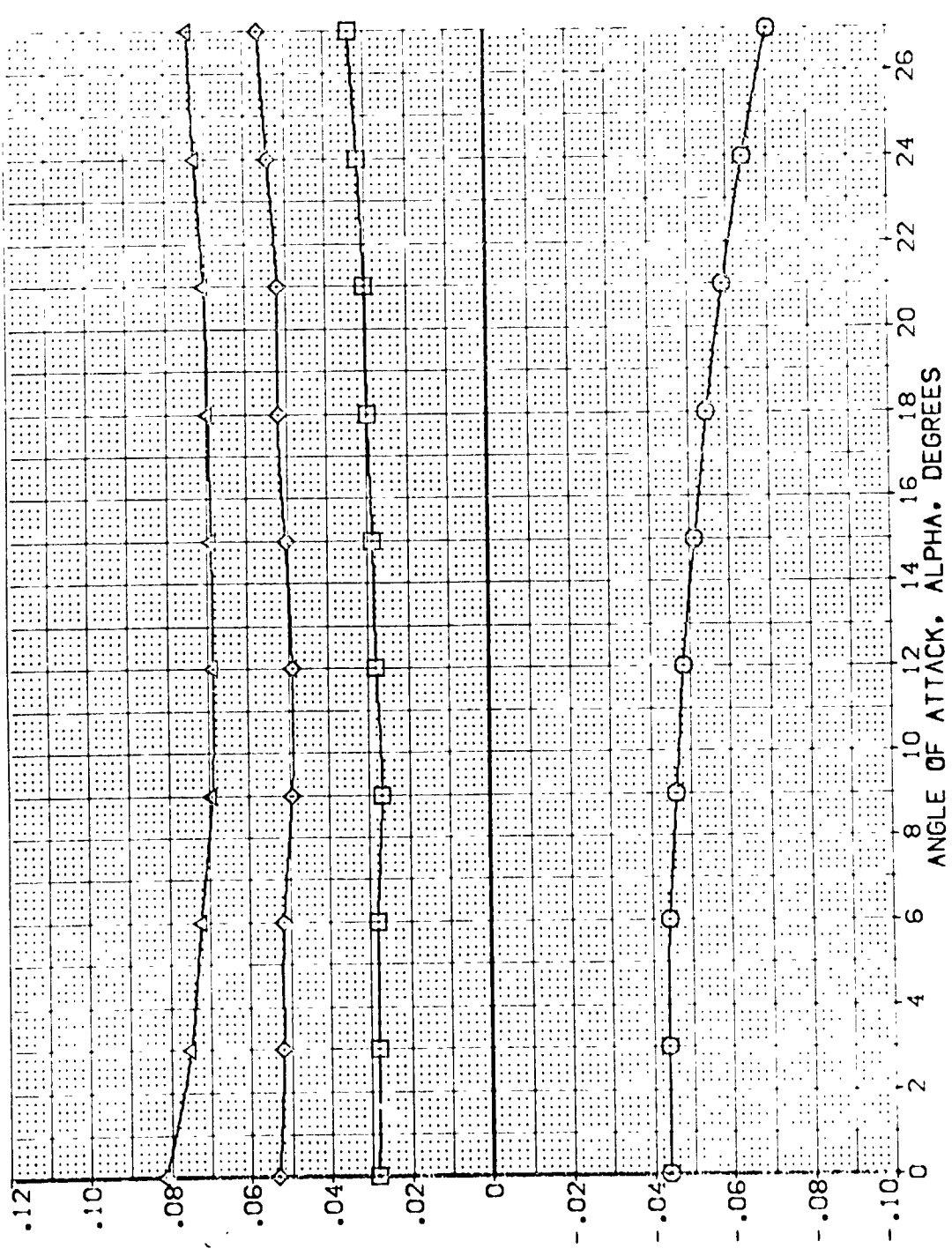


FIG. 7 ELEVON EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION DE AILRON BOFLAP SPOBRK REFERENCE INFORMATION

[VEK003] ARC 57-747 OAS33 B C H F VI V NON: RN/L 2.4210 50. FT.
 [VEK002] ARC 57-747 OAS33 B C H F VI V NON: RN/L 14.2410 70.
 [VEK019] ARC 57-747 OAS33 B C H F VI V NON: RN/L 28.1004 70.
 [VEK023] ARC 57-747 OAS33 B C H F VI V NON: RN/L 32.1004 70.
 [VEK023] ARC 57-747 OAS33 B C H F VI V NON: RN/L 32.1004 70.

SCALE 11.2500
 SCALE 11.2500
 SCALE 11.2500

INCREMENTAL PITCHING MOMENT COEFFICIENT (CFT C.G.), DCMFT

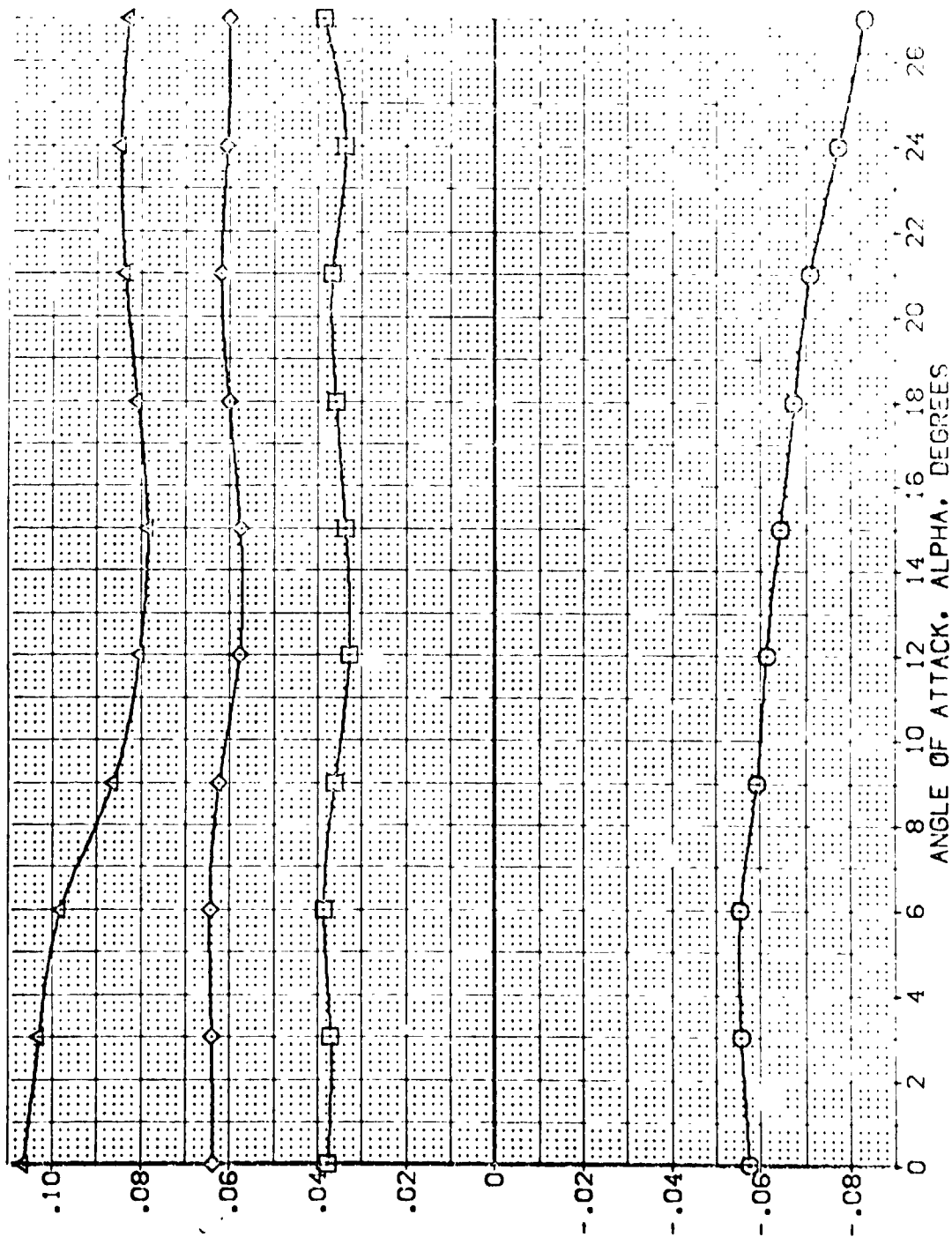


FIG. 7 ELEVON EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	ALTRON	BOFLAP	SPDRM	REFERENCE INFORMATION
[11-0003]	APC 97-747 C1523 B C C F V	15.000	.000	-11.700	55.000	SREF 2.4210
[11-0002]	APC 97-747 C1523 B C C F V	-10.000	.000	-11.700	55.000	LREF 14.2440
[11-0001]	APC 97-747 C1523 B C C F V	-20.000	.000	-11.700	55.000	DRF 20.1100
[11-0003]	APC 97-747 C1523 B C C F V	-20.000	.000	-11.700	55.000	TRF 32.1210

11-0000
 SCALE 11-0000
 SCALE 10.000

INCREMENTAL PITCHING MOMENT COEFFICIENT (AFT C.G.), DCMFT

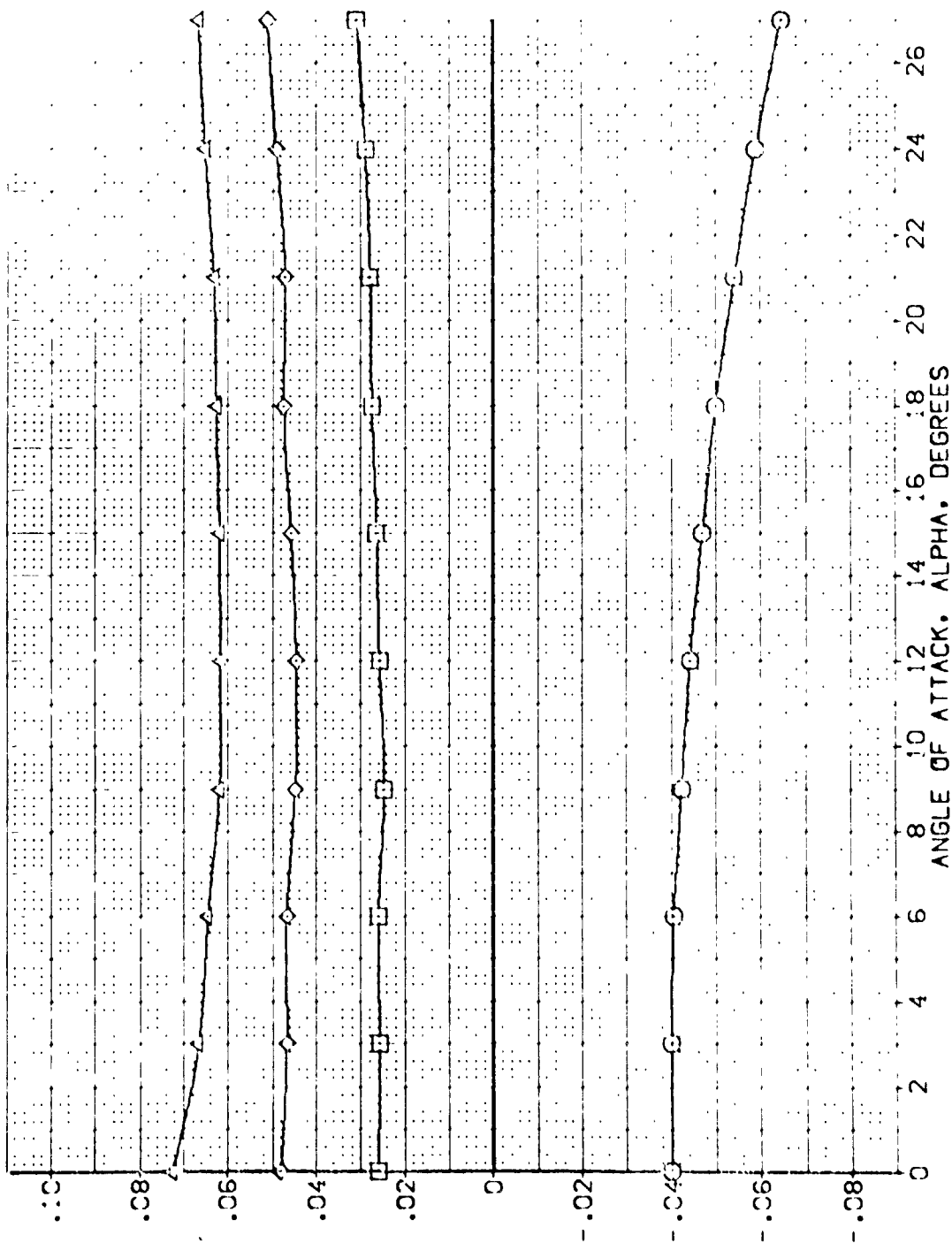


FIG. 7 ELEVON EFFECTS

(B) MACH = 2.00

ARC 97-747 0A538 B C M F W1 V NOM. RN/L [TEKO16]

SYMBOL
○ □

MACH 1.600 2.002
BETA
AILRON
SPOBRK
ELEV-L
PARAMETRIC VALUES
.000 ELEVON
.000 BOFLAP
55.000 RUDDER
.000 ELEV-R

REFERENCE INFORMATION
SREF 2.4210
LREF 14.2440
EREF 20.1200
XREF 32.1200
YREF 11.2000
ZREF 11.2000
SCALE

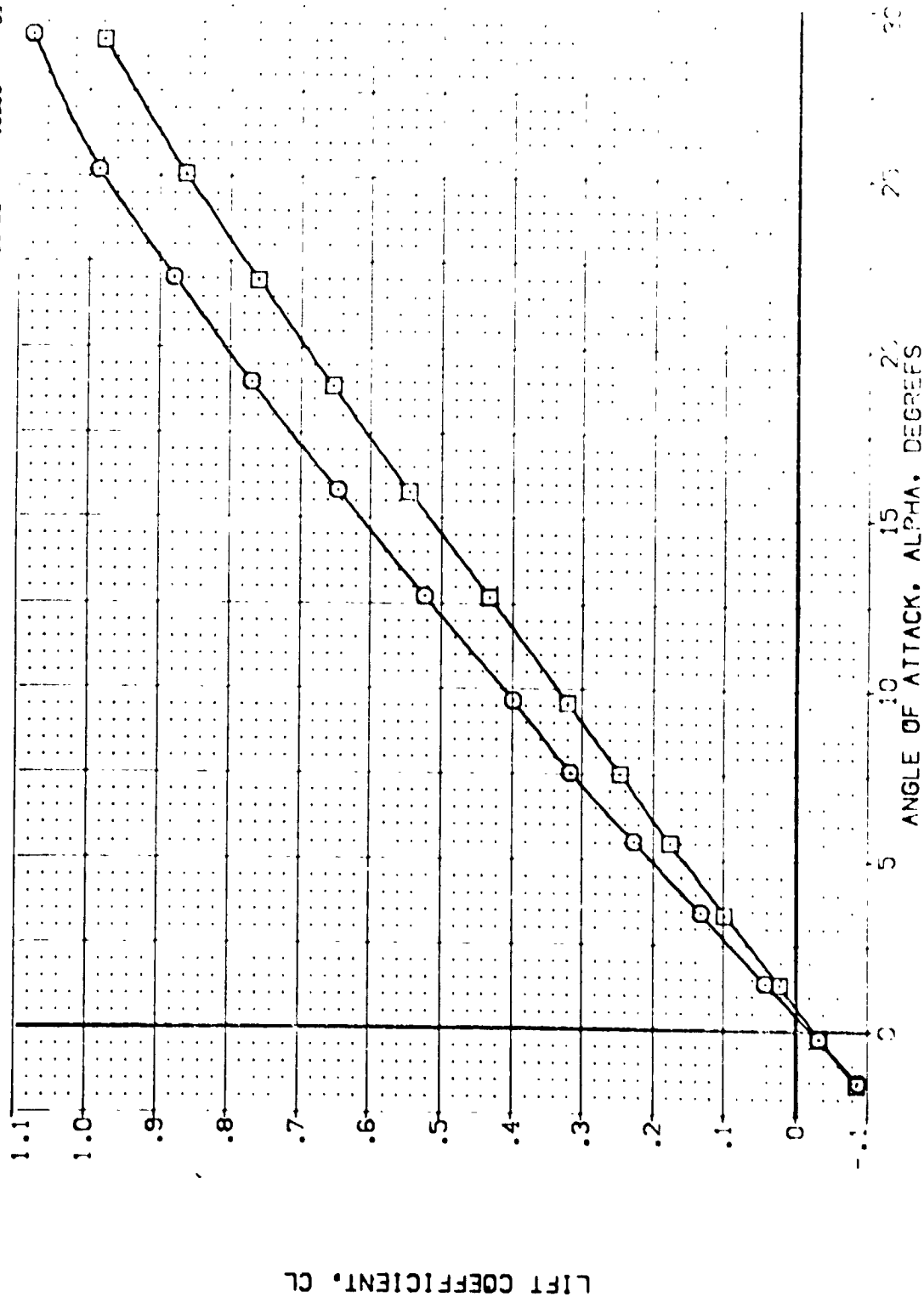


FIG. 7 ELEVON EFFECTS

SYMBOL

WASH 1.600 BETA .000 ELEVATION .000
2.002 ALPHA .000 ELEVATION .000
SP080W 56.000 SP080P .000
ELEVATION .000 ELEVATION .000

REFERENCE INFORMATION:
TYPE 2.4210
SIZE 14.2440
ELEVATION 20.0000
WIND 32.0000
TWO 12.0000
SCALE 10000

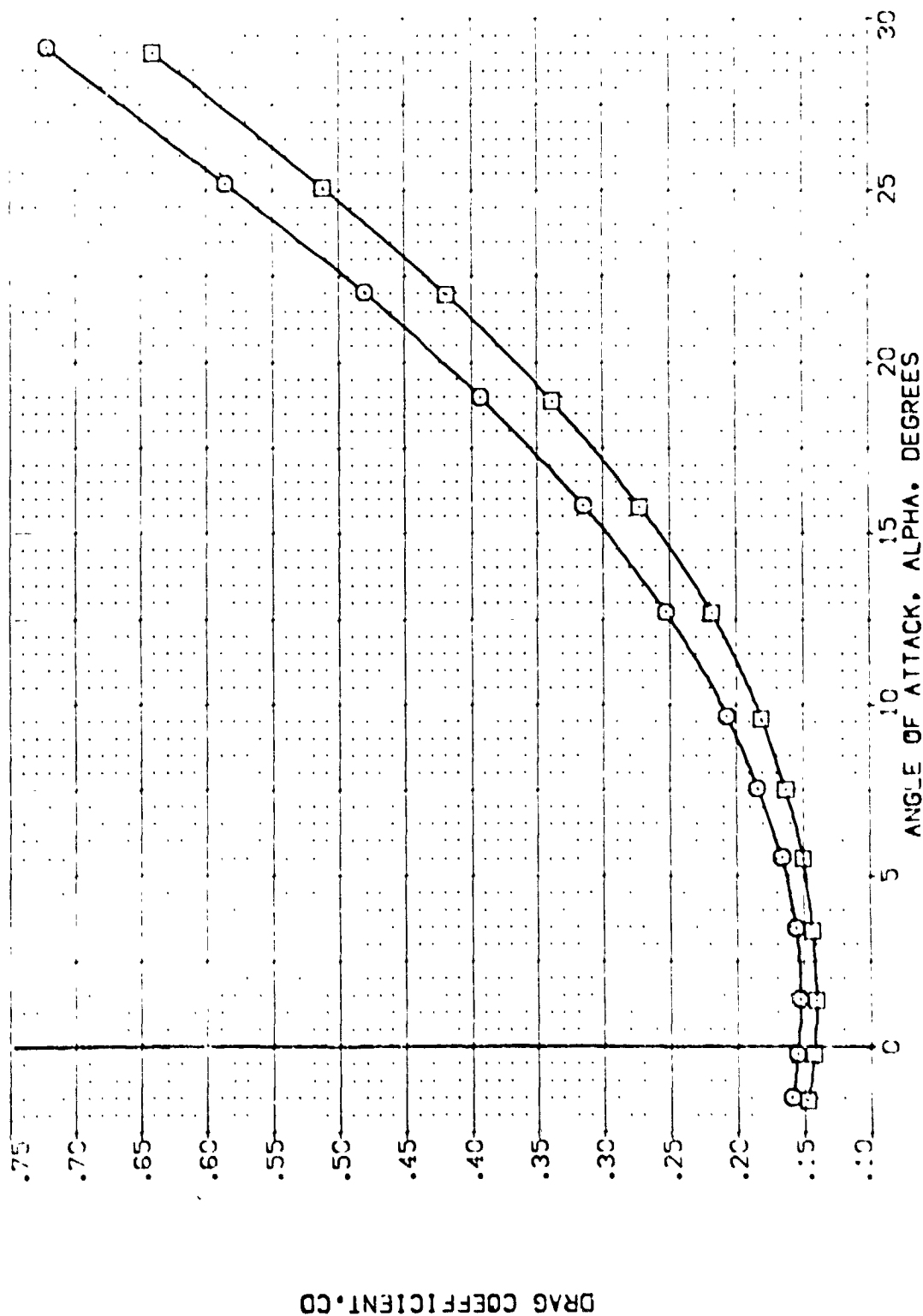


FIG. 7 ELEVON EFFECTS

SYMBOL
○ □

MACH
1.600
2.002

BETA
AILRON
SPDRK
ELEV-L

PARAMETRIC VALUES
.000 ELEVON
.000 BOFLAP
55.000 RUDDER
.000 ELEV-R

REFERENCE INFORMATION
SREF 2.4210
LREF 14.2440
BREF 28.1004
XREF 32.5010
YREF 0.0000
ZREF 11.7500
SCALE .0000

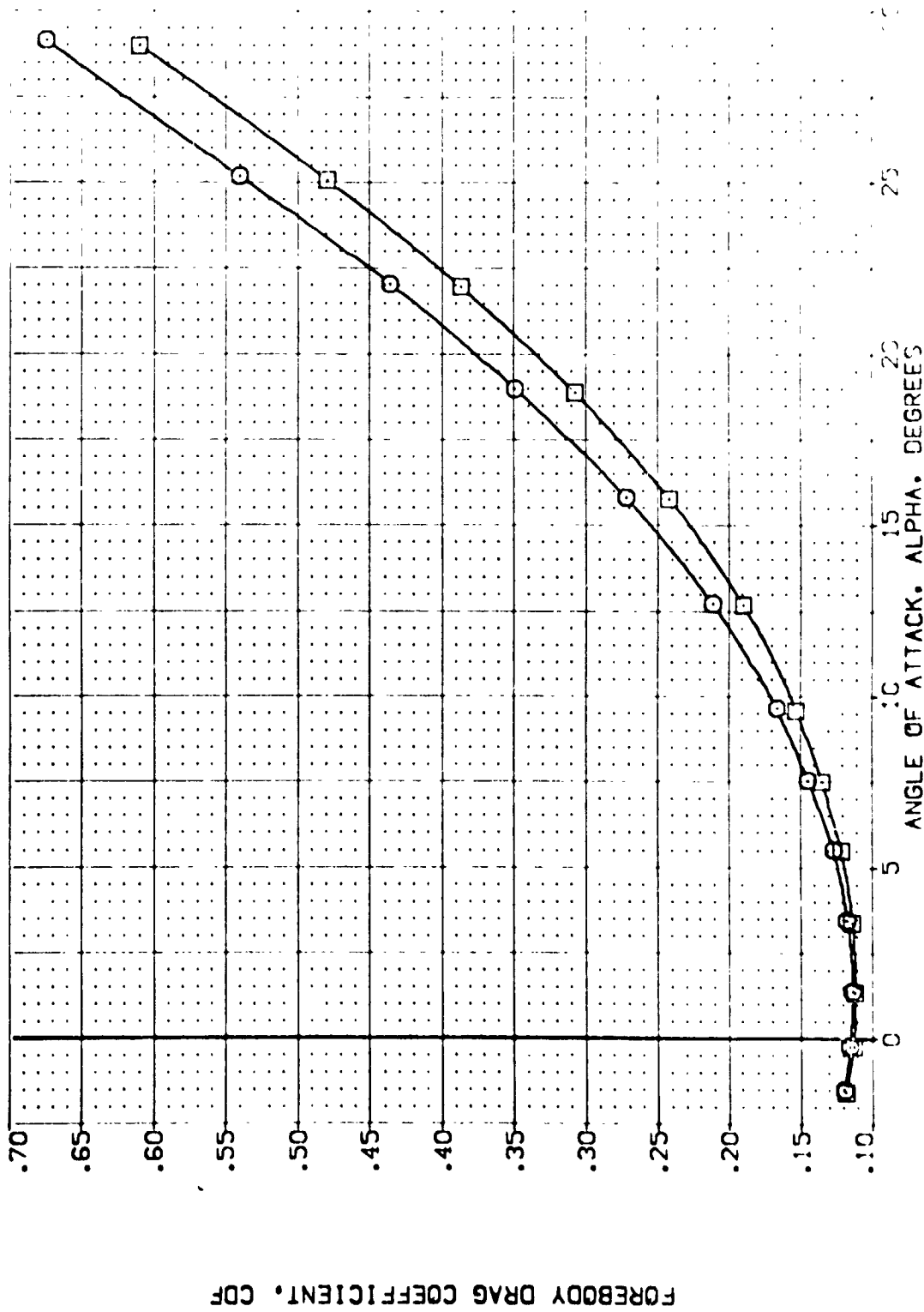


FIG. 7 ELEVON EFFECTS

ARC 97-747 CAS33 B C M F W1 V NOM. RN/L

(TEK016)

SYMBOL
○ □

MACH
1.600
2.002

PARAMETRIC VALUES
BETA
ATLPOA
SP03PW
ELF/L

.000
.000
.000
.000

ELEVON
DOF LAP
RUDER
ELEV-P

.000
.000
.000
.000

REFERENCE INFORMATION
SREF 2.4210
LREF 14.2440
DOF 14.2440
W1/P 32.0000
W2/P 11.2500
SCALE .0000

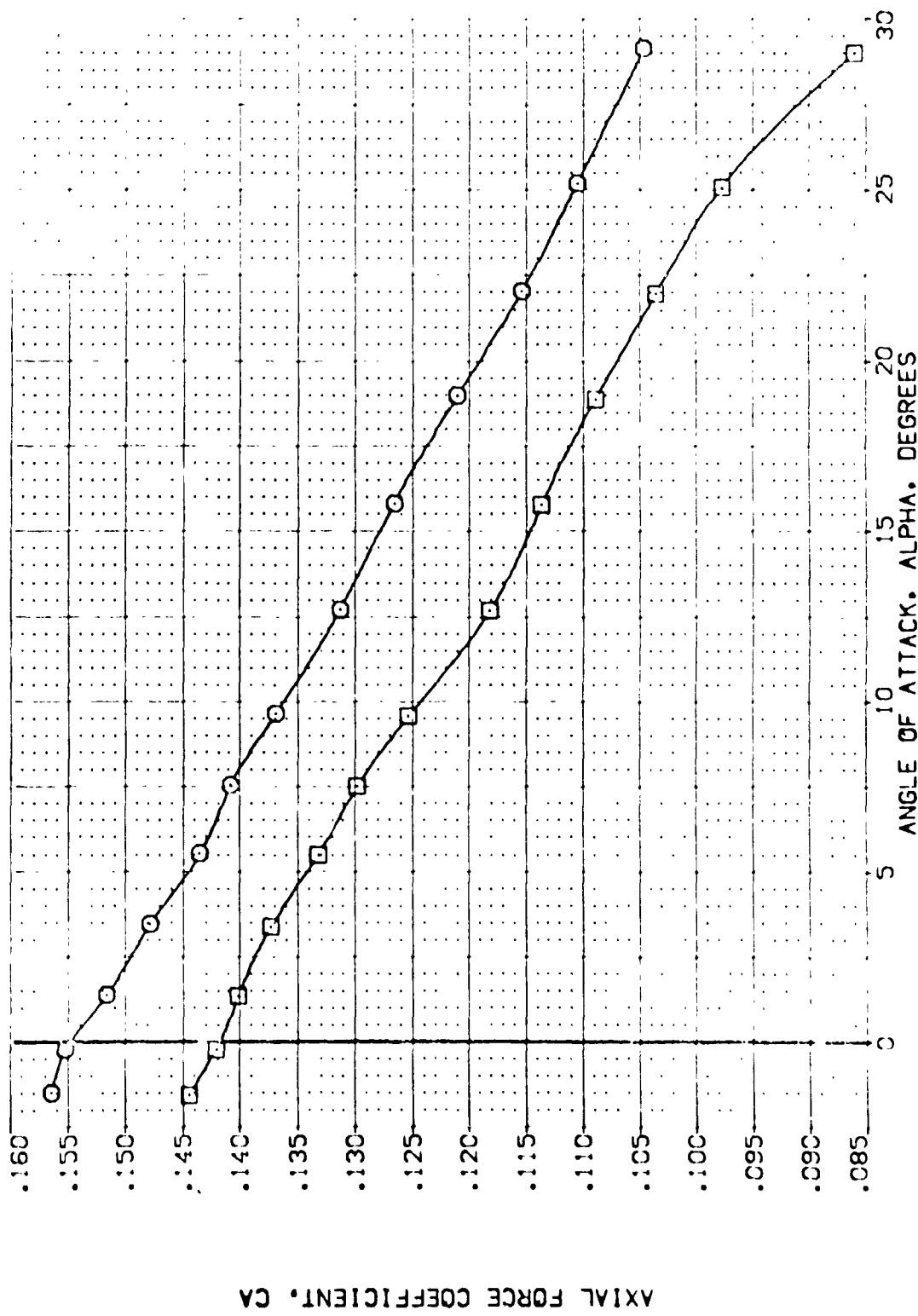


FIG. 7 ELEVON EFFECTS

ARC 97-747 0A53B B C M F W1 V NOM. RN/L (TEK016)

SYMBOL
○
□

MACH
1.600
2.002

BETA
A1LRON
SPDRK
ELEV-L

PARAMETRIC VALUES
.000
.000
.000
.000

ELEVON
BOFLAP
RUDDER
ELEV-R

REFERENCE INFORMATION
SREF 2.4210
LREF 14.2440
BREF 28.1004
XREF 32.2010
YREF 0.0000
ZREF 11.2000
SCALE .0000

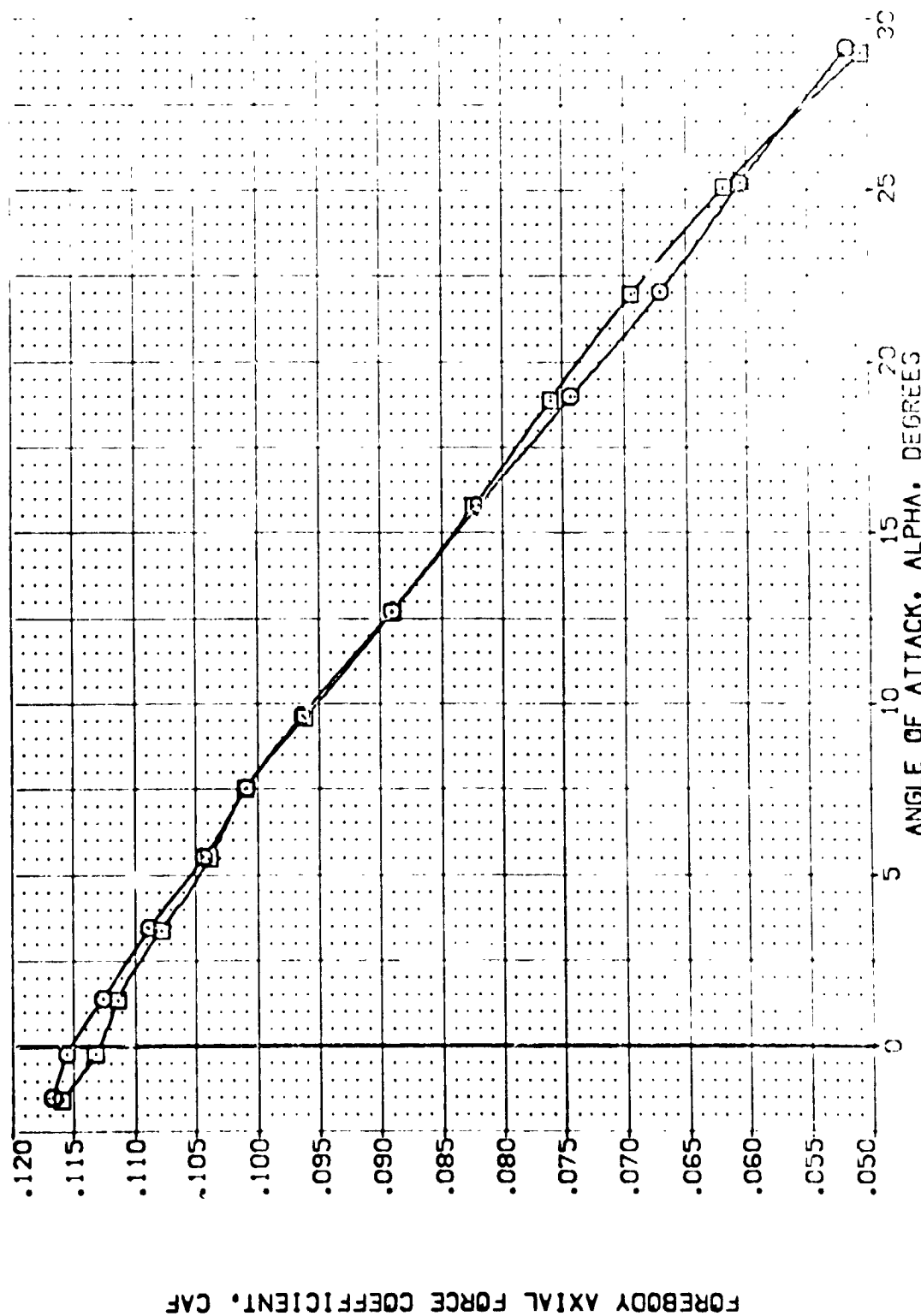


FIG. 7 ELEVON EFFECTS

ARC 97-747 0A533 B C M F W I V NOM. RN/L

(TEKO:6)

SYMBOL
○ □

PARAMETRIC VALUES
MACH 1.600 BETA .000 ELEVON .000
2.002 ALLRON .000 EOLAP .000
SPDRK 55.000 FLUDER .000
ELEV-L .000 ELEV-R .000

REFERENCE INFORMATION
SREF 2.4210 52.FT.
LREF 14.2340 IN.
BREF 20.1004 IN.
VREF 25.1000 IN.
WREF 25.1000 IN.
ZREF 11.0000 IN.
SCALE

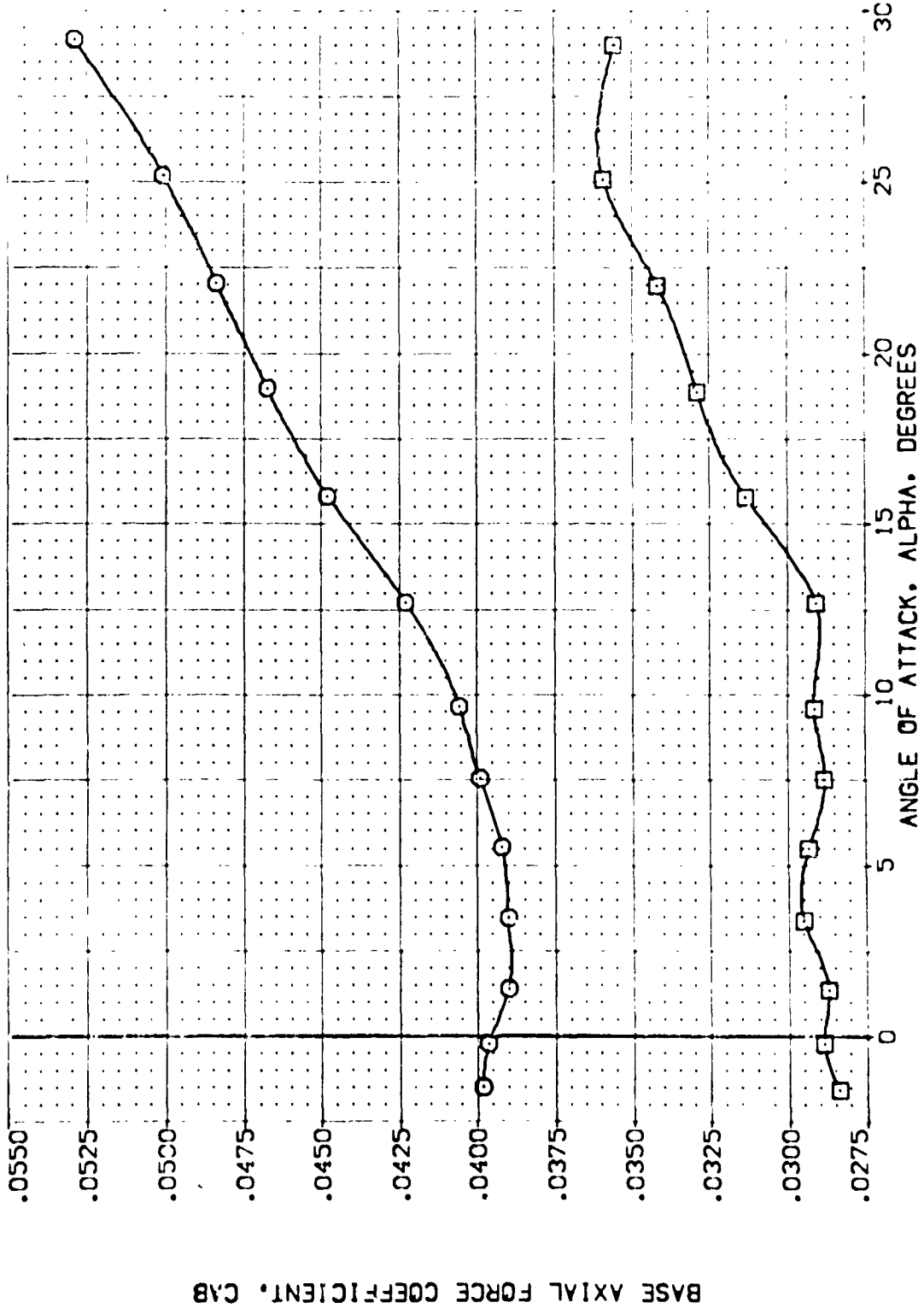


FIG. 7 ELEVON EFFECTS

ARC 97-747 0A538 B C M F W1 V NOM. RN/L (TEK016)

SYMBOL
○ □

MACH 1.600 2.002
BETA .000
AILRON .000
SPOCK 56.000
ELEV-L .000

PARAMETRIC VALUES
ELEVON .000
BOFLAP .000
RUDDER .000
ELEV-R .000

REFERENCE INFORMATION
SREF 2.4210
LELF 14.2440
EDEF 20.1000
XREF 32.0000
YREF 10.0000
ZREF 11.0000
SCALE 1.0000

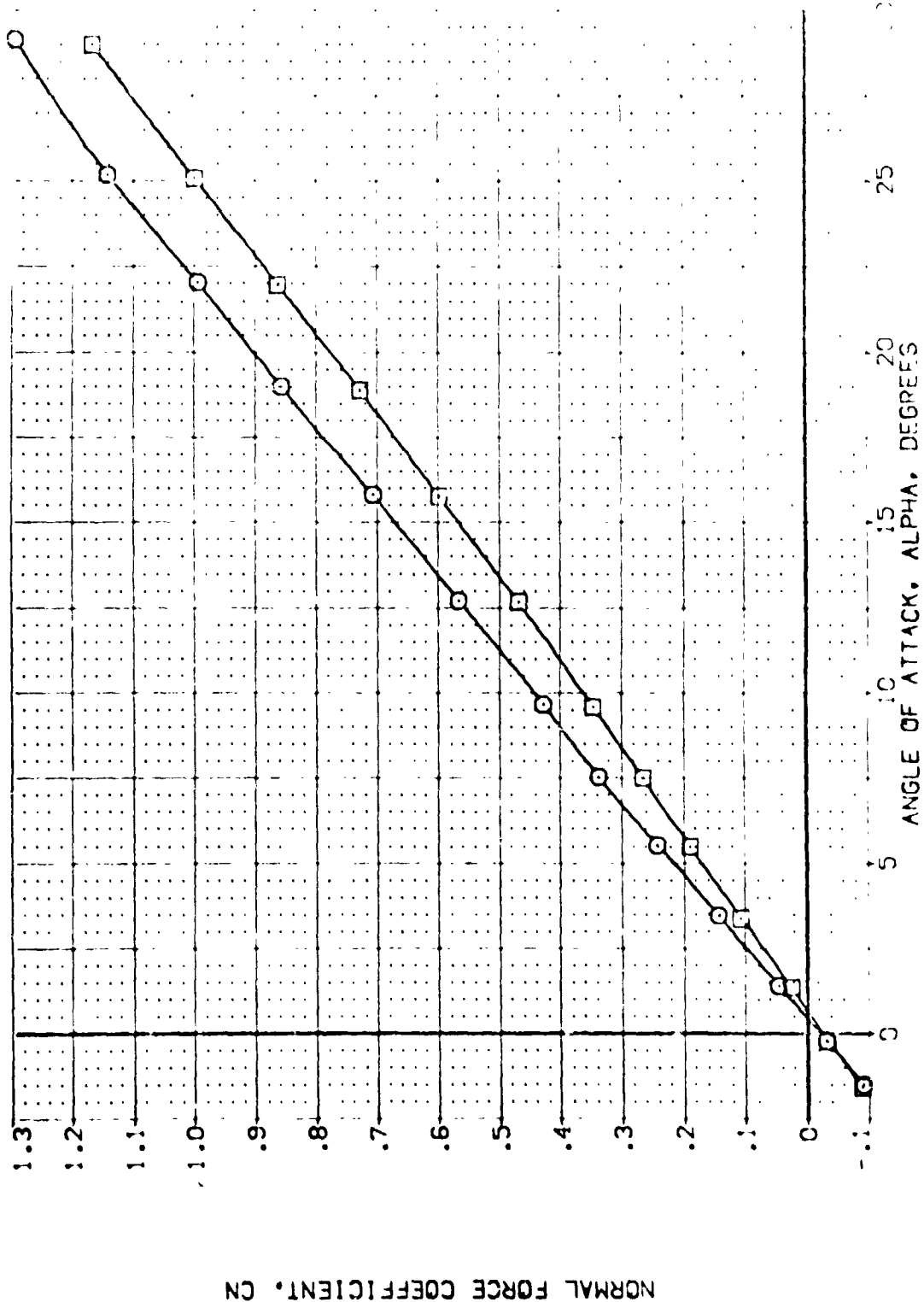


FIG. 7 ELEVON EFFECTS

ARC 97-747 0A53B B C M F W1 V NOM. RN/L

(TEK016)

SYMBOL
○ □

MACH
1.500
2.000

BETA
AILURON
SPDRK
ELEV-L

PARAMETRIC VALUES
.000 ELEVON
.000 BOFLAP
55.000 PLODER
.000 ELEV-R

.000
.000
.000
.000

REFERENCE INFORMATION
SREF 2.4210 SQ.FT.
LREF 14.2410 IN.
EMEF 20.1001 IN.
XREF 32.1010 IN.
YREF 11.2500 IN.
ZREF 11.2500 IN.
SCALE .0050

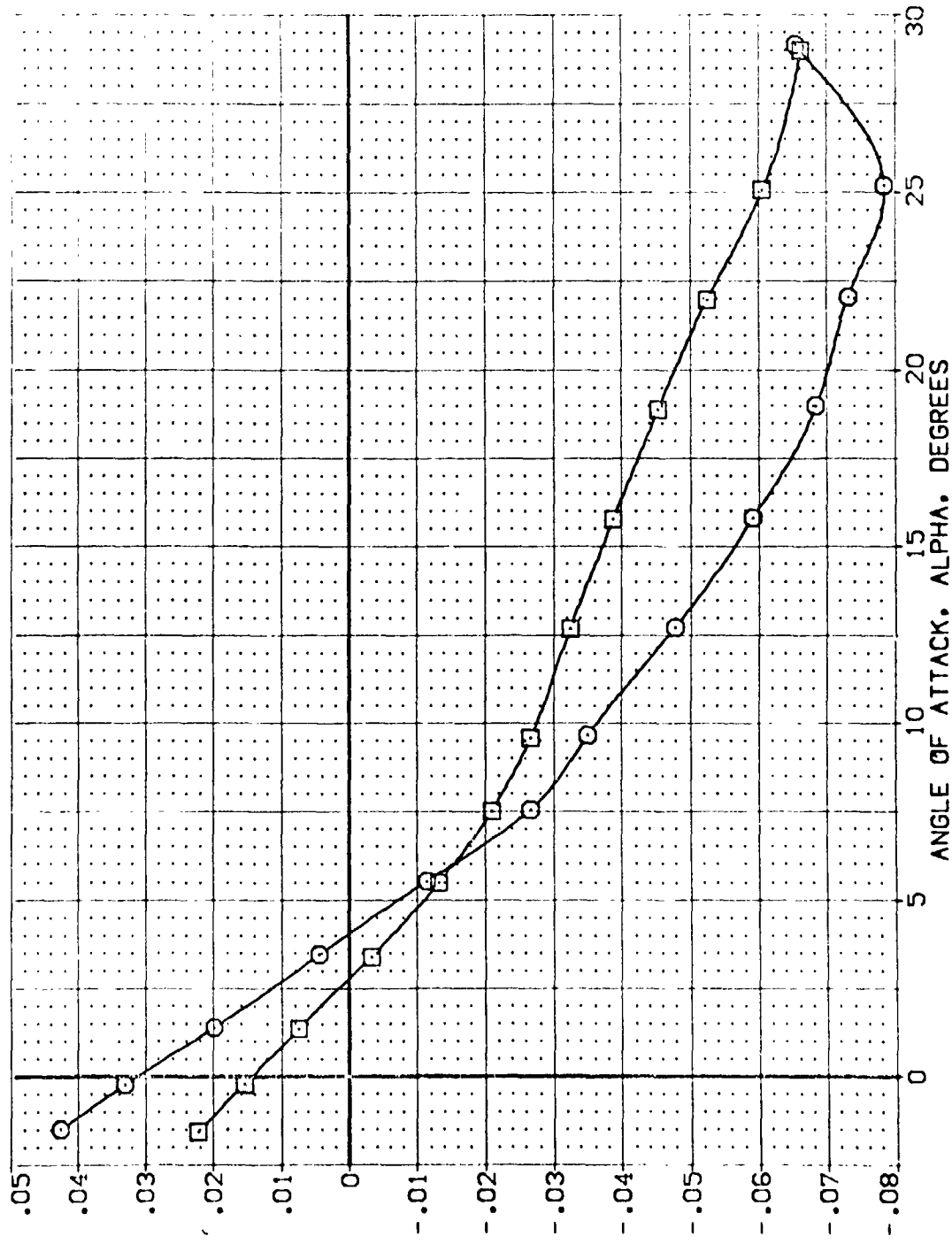


FIG. 7 ELEVON EFFECTS

SYMBOL
○ □

MACH
1.600
2.002

PARAMETRIC VALUES
BETA .000 ELEVON .000
AILRON .000 BOFLAP .000
SPDRK 55.000 RUDDER .000
ELEV-L .000 ELEV-R .000

REFERENCE INFORMATION
SPEED 2.4210 SQ.FT.
LIFT 14.2400
DRAG 24.1004
XMP 22.0010
YMP 0.0000
ZMP 0.0000
SCALE 11.0000
SCALE .0000

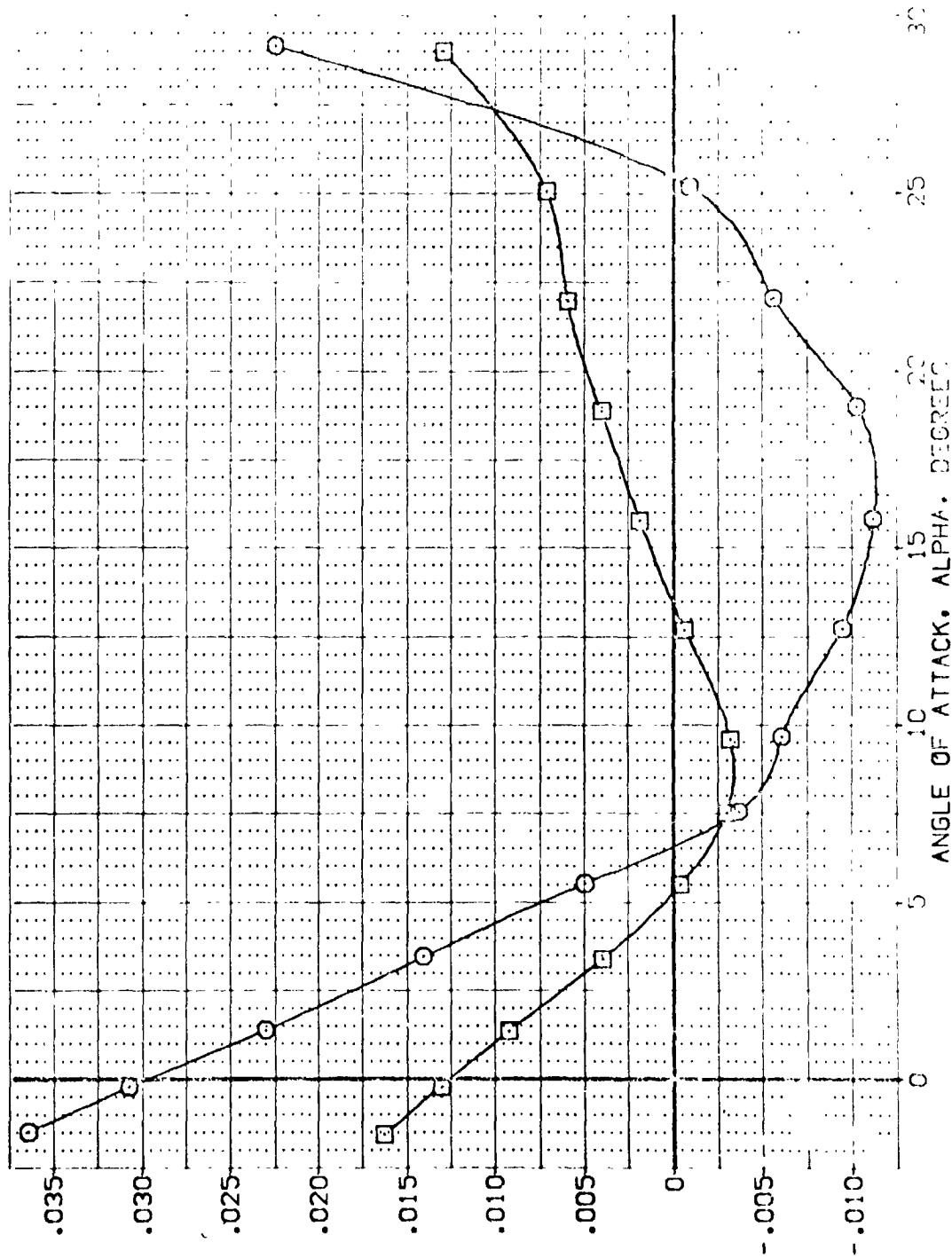


FIG. 7 ELEVON EFFECTS

650

●

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SEITVA Jigānvard

WILLIAMSON

0:1

3-18
10-1

65 66
67 68
69 70

88

31.

2.420
2.420

11-13-33
11-13-33

6-1573 000
63000 000'95

$$\{\cdot\} \cdot \{\cdot\}$$

1. x 2. y 3. z

22



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION			
		BETA	ELEVON	BOFLAP	ELEVON	SREF	REF	REF	SCALE
○	1.000	.000	.000	.000	.000	2.4210	14.2440	28.1004	1.0000
□	2.002	.000	.000	.000	.000	2.4210	14.2440	28.1004	1.0000
		SPEED	REF	REF	REF	2.4210	14.2440	28.1004	1.0000
		ELEV-L	ELEV-R			2.4210	14.2440	28.1004	1.0000

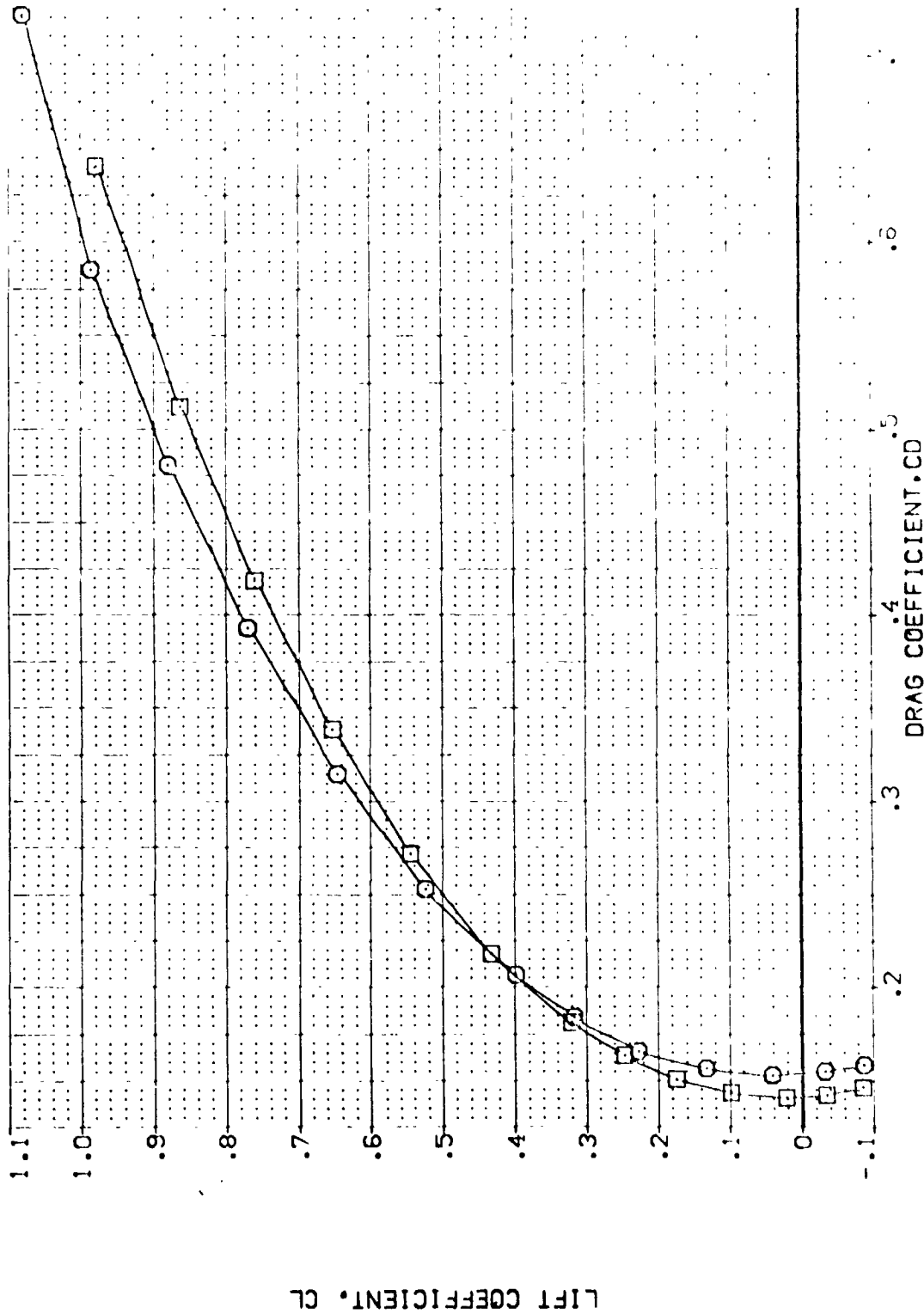


FIG. 7 ELEVON EFFECTS

SYMBOL
○ □

MACH
1.600
2.002

BETA
A1LRON
SPCRK
ELEV-L

PARAMETRIC VALUES
.000 ELEVON
.000 ECLAP
55.000 RUDDER
.000 ELEV-R

REFERENCE INFORMATION
SREF 2.4210 SQ.FT.
LREF 14.1440 IN.
DREF 20.1000 IN.
XREF 32.0010 IN.
YREF 0.0000 IN.
ZREF 11.2500 IN.
SCALE .0000

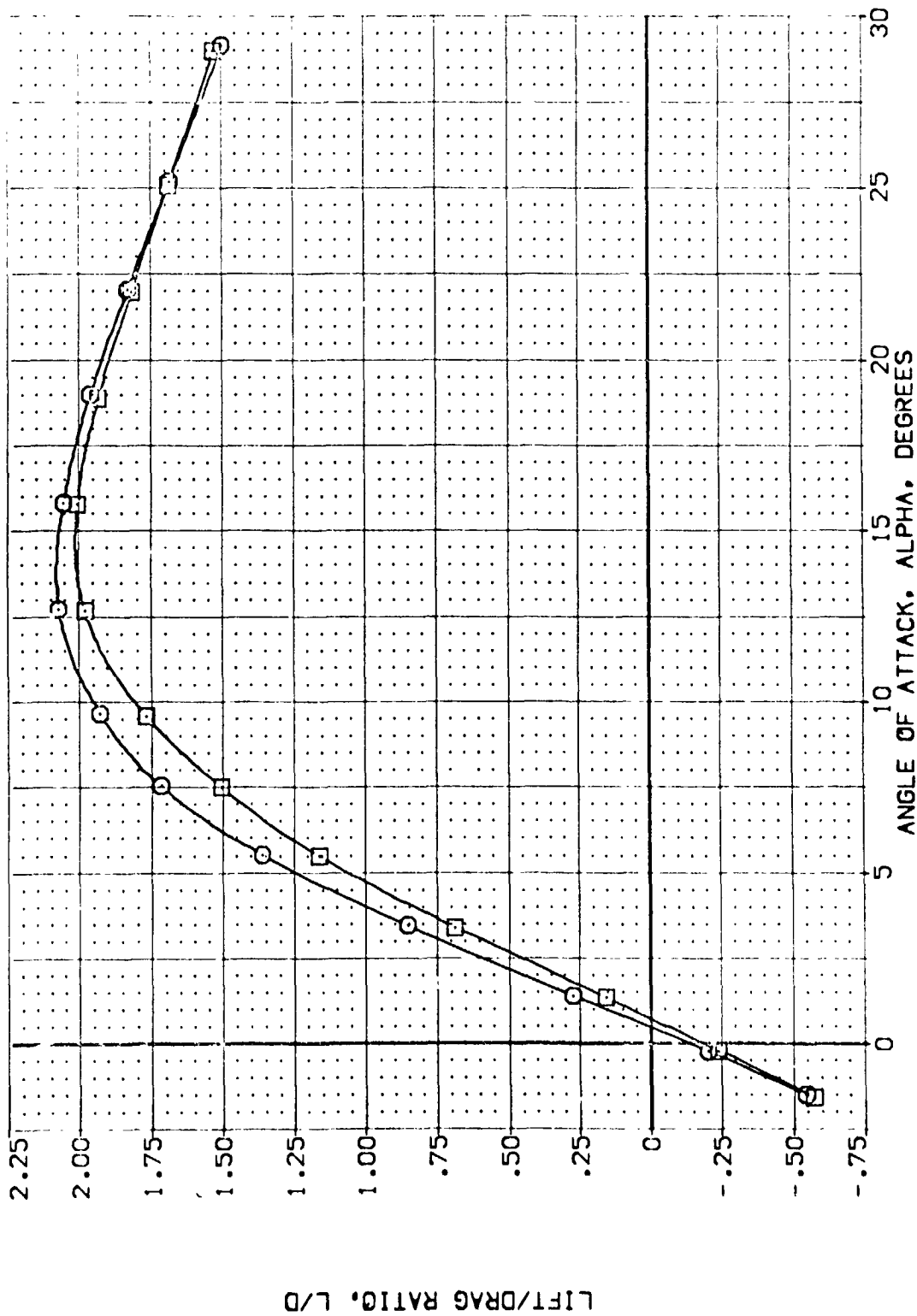


FIG. 7 ELEVON EFFECTS

ARC 97-747 OA53B B C M F W1 V NCM. RN/L (AEK016)

SYMBOL



MACH

1.600
2.002

BETA

.000
A1LRON

PARAMETRIC VALUES

.000 ELEVON
.000 BDFLAP
55.000 RUDDER
.000 ELEV-R

.000

.000
.000
.000

REFERENCE INFORMATION

SREF 2.4210 SQ.FT.
LREF 14.2440 IN.
CREF 73.1004 IN.
XREF 32.3010 IN.
YREF .0000 IN.
ZREF 11.4000 IN.
SCALE .0000

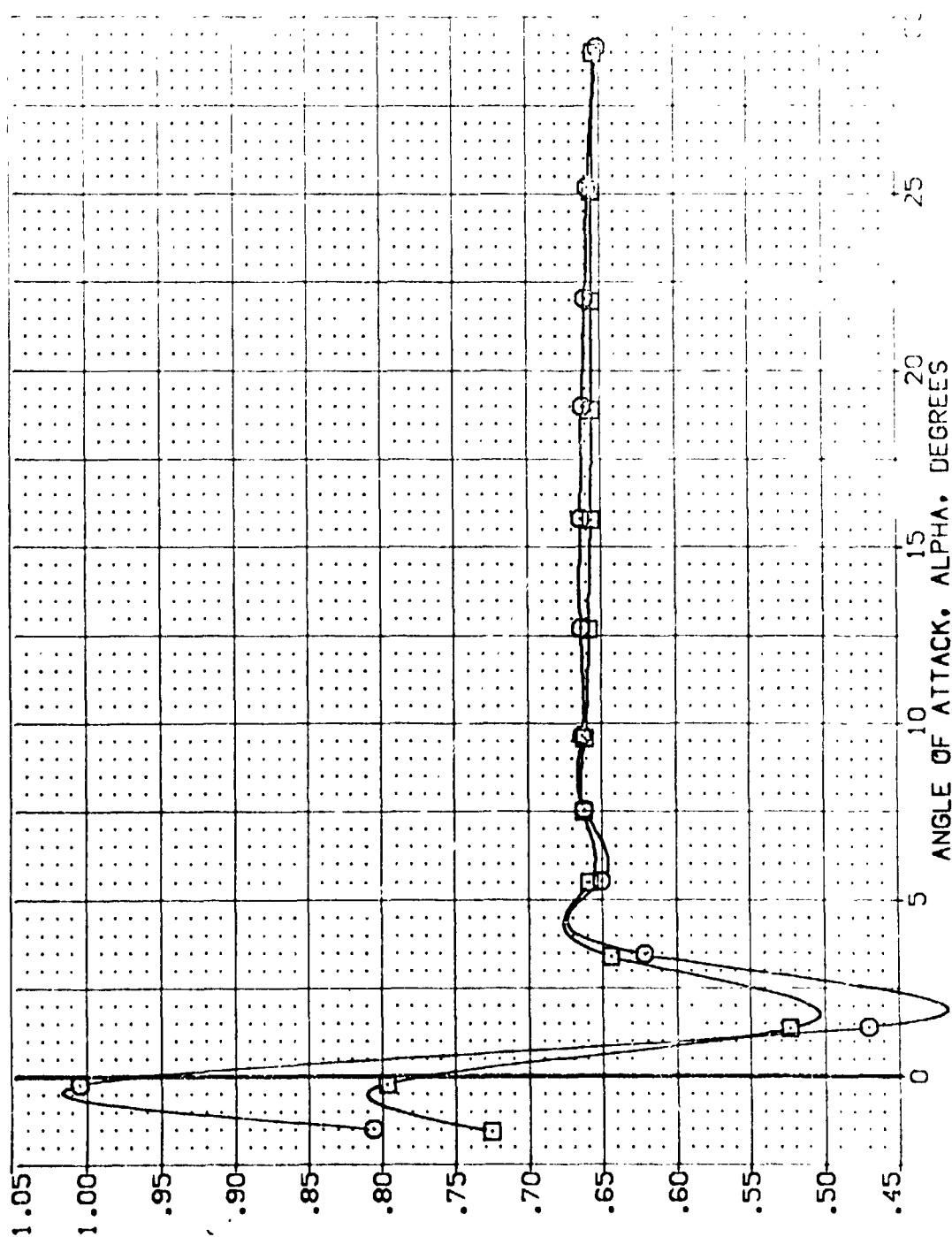


FIG. 7 ELEVON EFFECTS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BDF LAP	SPDRBK	REFERENCE INFORMATION
(TEV010)	ARC 97-747 0A538 B C M F V1 V	.000	.000	16.300	55.000	SREF 2.4210 SQ.FT.
(TEV016)	ARC 97-747 0A538 B C M F V1 V	.000	.000	.000	55.000	LREF 14.2440 IN.
(TEV011)	ARC 97-747 0A538 B C M F V1 V	.000	.000	-11.700	55.000	BREF 28.1004 IN.
						XMRP 32.3010 IN.
						YMRP .0000 IN.
						ZMRP 11.2500 IN.
						SCALE .0300

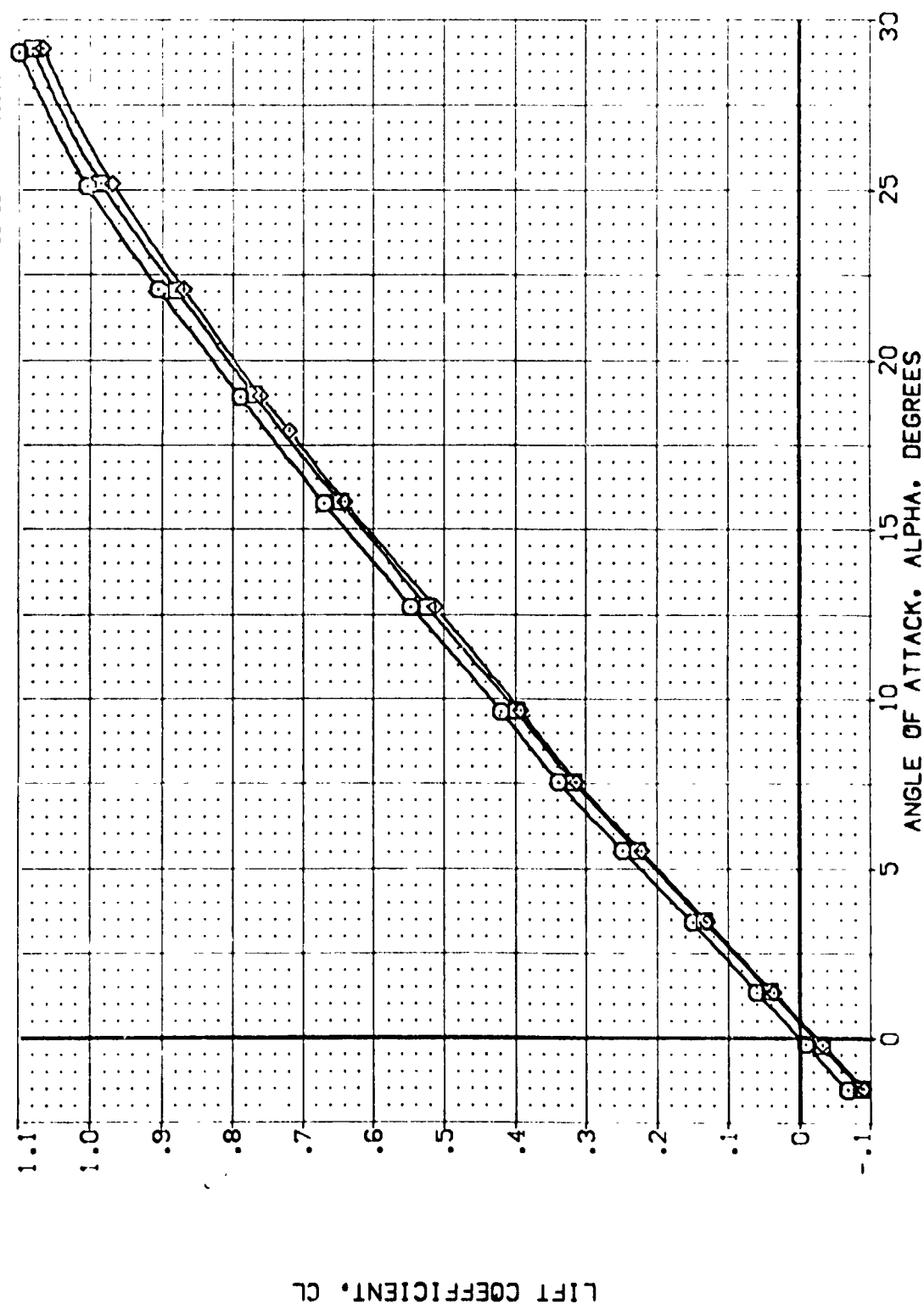


FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AIRLIFT	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEK010)	ARC 97-747 CAS38 B C H F VI V	.000	.000	16.300	55.000	SREF 2.4210
(TEK016)	ARC 97-747 CAS38 B C H F VI V	.000	.000	16.300	55.000	LPREF 14.2410
(TEK011)	ARC 97-747 CAS38 B C H F VI V	.000	.000	-11.700	55.000	EPREF 28.1004
						YREF 0.0000
						ZREF 0.0000
						SCALE 11.2000

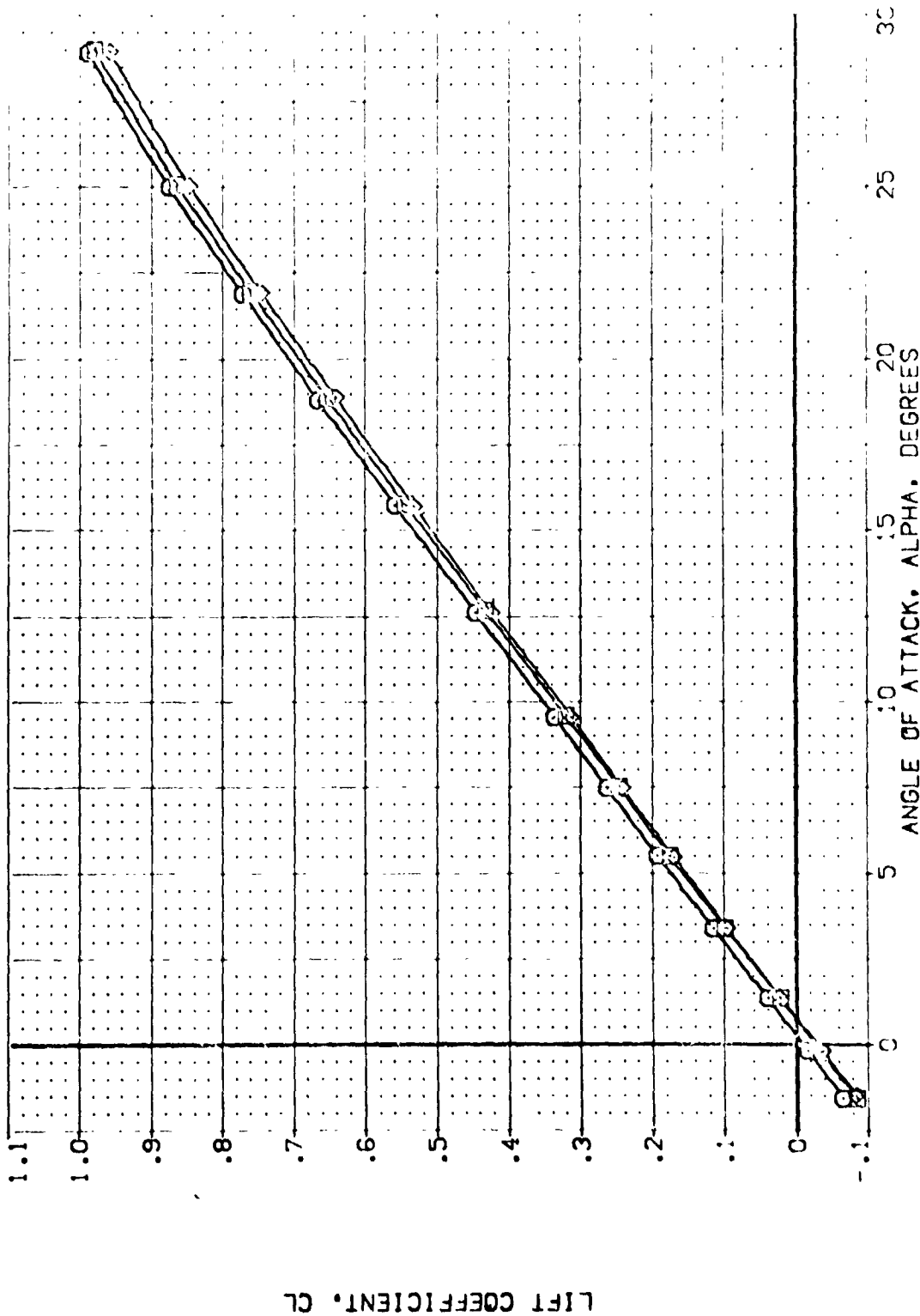


FIG. 8 BODYFLAP EFFECTS

(B)MAC = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BODYFLAP	SPOILER	REFERENCE INFORMATION
(TE01:0)	ARC 97-747 B-503 B C M F V I V	.000	.000	16.200	55.000	SREF 2.4210
(TE01:5)	ARC 97-747 C-503 B C M F V I V	.000	.000	11.700	55.000	LREF 14.2440
(TE01:1)	ARC 97-747 C-503 B C M F V I V	.000	.000	-11.700	55.000	LREF 22.1000
						YREF 32.1000
						ZREF 11.2000
						SCALE 11.2000

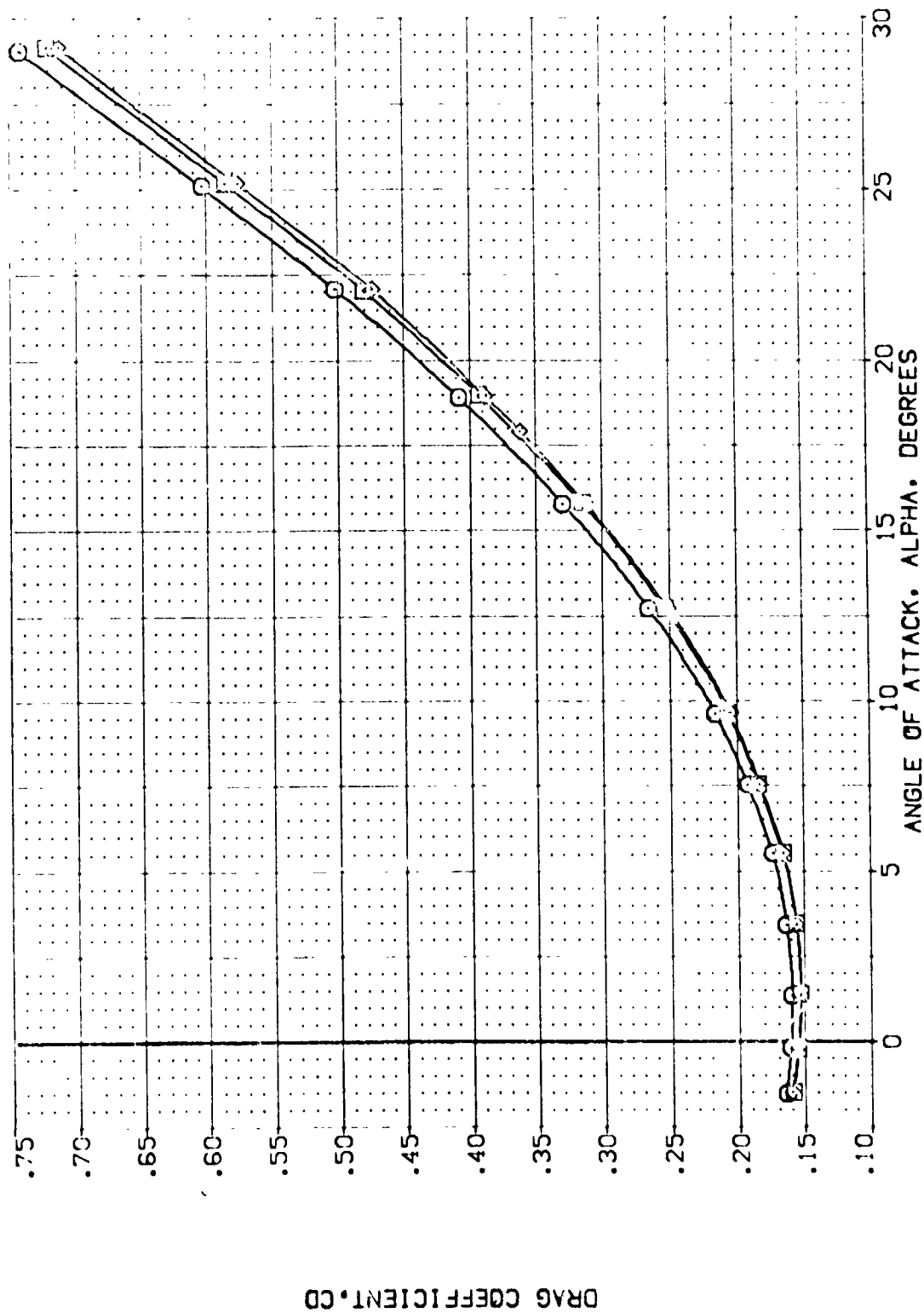


FIG. 8 BODYFLAP EFFECTS

(M)MACH = 1.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPDBRK	REFERENCE INFORMATION
(TEMP010)	ARC 97-747 BAS38 B C M F VI V	.000	.000	16.000	55.000	SPRGE 2.4210
(TEMP016)	ARC 97-747 BAS38 B C M F VI V	.000	.000	.000	55.000	LRFF 14.2740
(TEMP011)	ARC 97-747 BAS38 B C M F VI V	.000	.000	-11.700	55.000	LRFF 28.1004
						SPRGE 37.5910
						LRFF 11.2000
						SPRGE 11.0000
						SCALE

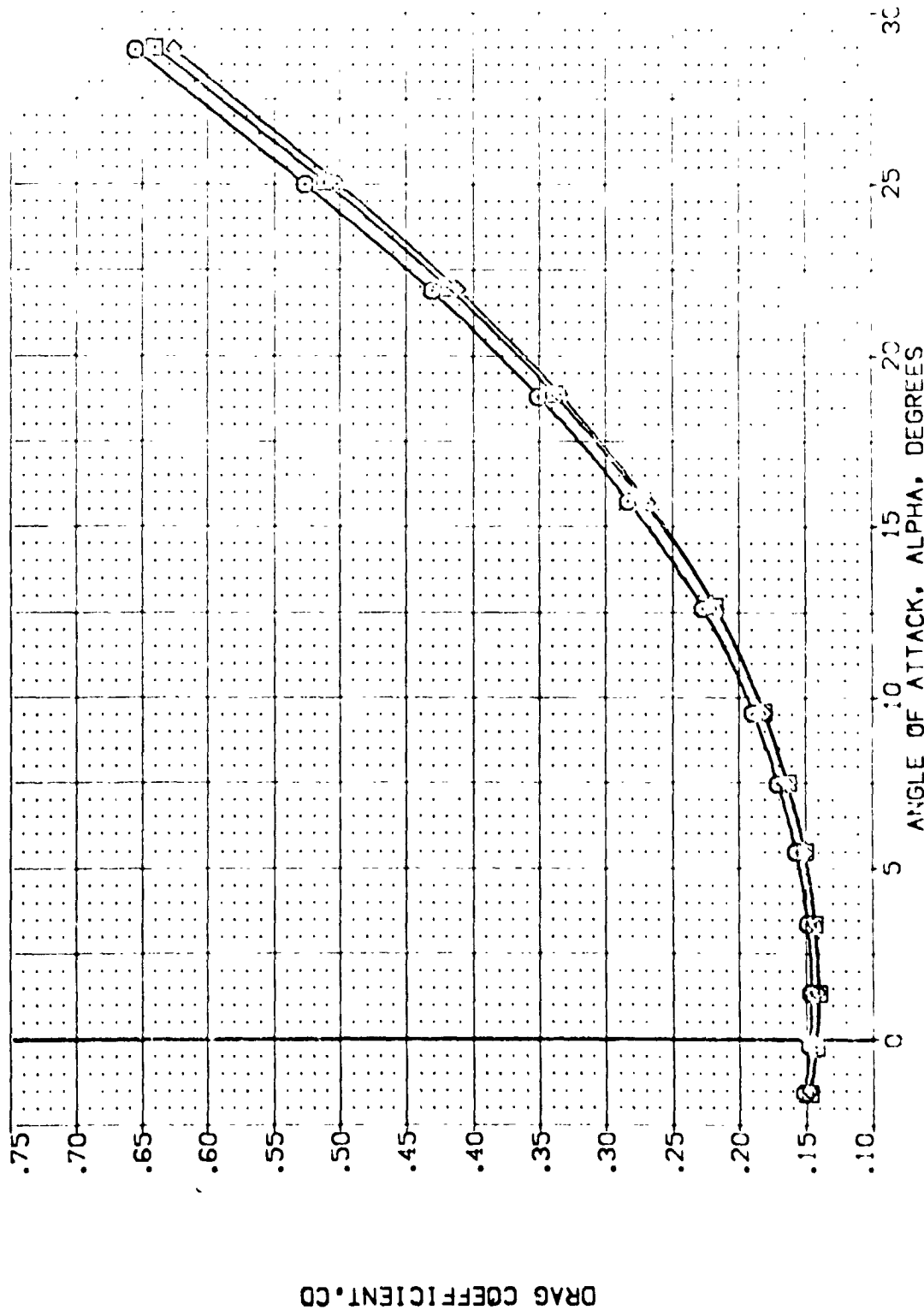


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BD/LAP	SPDRK	REFERENCE INFORMATION	
{TEQ:10}	ARC 97-747 CAS23 B C M F V1 V	.000	.000	16.300	55.000	SREF	2.4210
{TEQ:16}	ARC 97-747 CAS23 B C M F V1 V	.000	.000	.000	55.000	LREF	14.2340
{TEQ:11}	ARC 97-747 CAS23 B C M F V1 V	.000	.000	-11.700	55.000	BREF	23.1004
						XM75	11.0000
						YM75	11.0000
						ZM75	11.0000
						SCALE	.0003

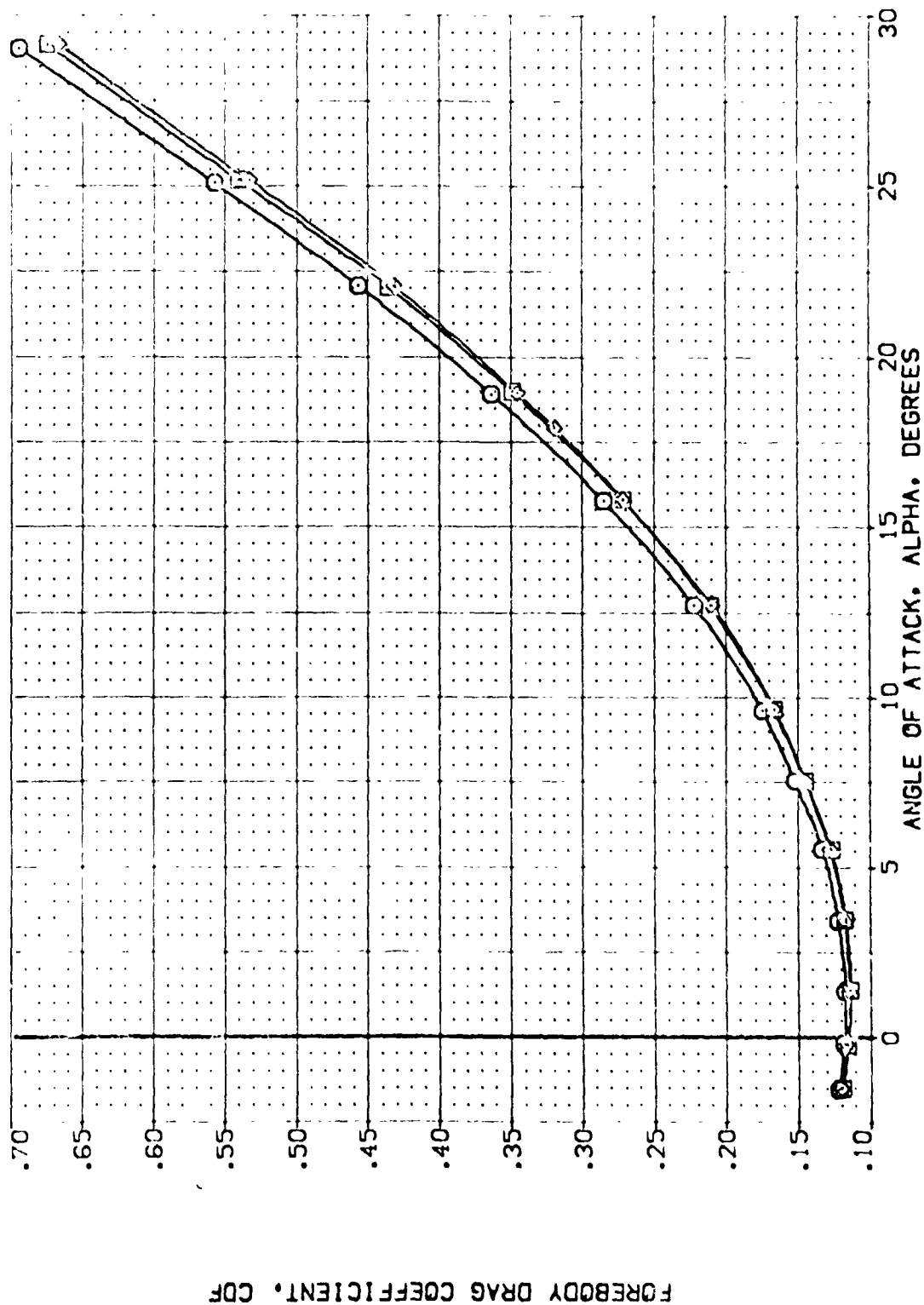


FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	BD FLAP	SPOBRK	REFERENCE INFORMATION
{TEMO10}	ARC 97-747 OAS3B B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210 52.000
{TEMO16}	ARC 97-747 OAS3B B C M F VI V	.000	.000	.000	55.000	LREF 14.2740 14.000
{TEMO11}	ARC 97-747 OAS3B B C M F VI V	.000	.000	-11.700	55.000	BREF 28.1004 14.000
						YMRP 32.0000 14.000
						ZMRP 11.2500 14.000
						SCALE .0000

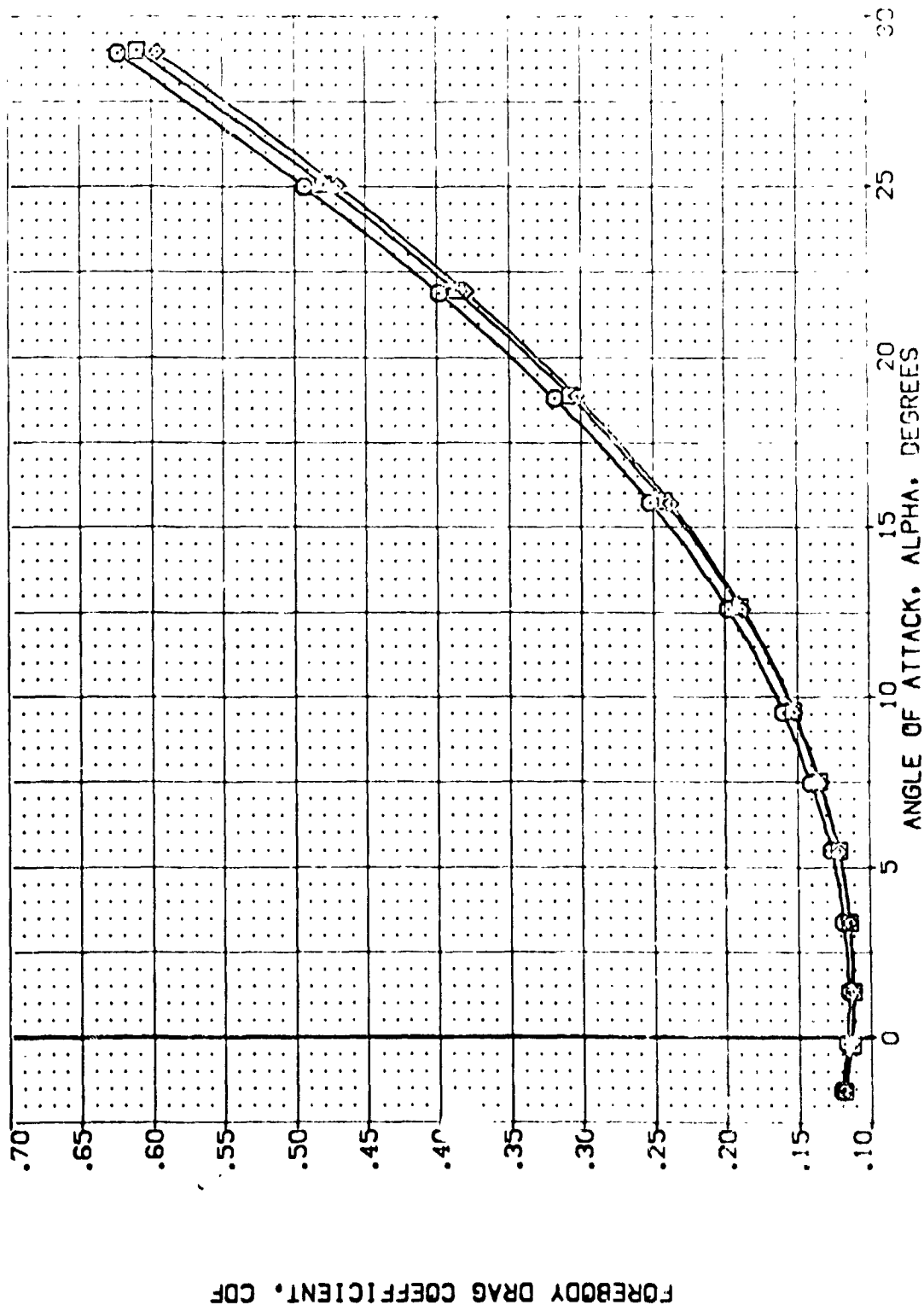


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOILER	REFERENCE INFORMATION
(TEM010)	ARC 97-747 BAS03 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210
(TEM019)	ARC 97-747 BAS03 B C M F VI V	.000	.000	16.300	55.000	LREF 14.2440
(TEM011)	ARC 97-747 BAS03 B C M F VI V	.000	.000	-11.700	55.000	BREF 28.1001
						XREF 32.6119
						YREF 11.7500
						ZREF 11.7500
						SCALE .0000

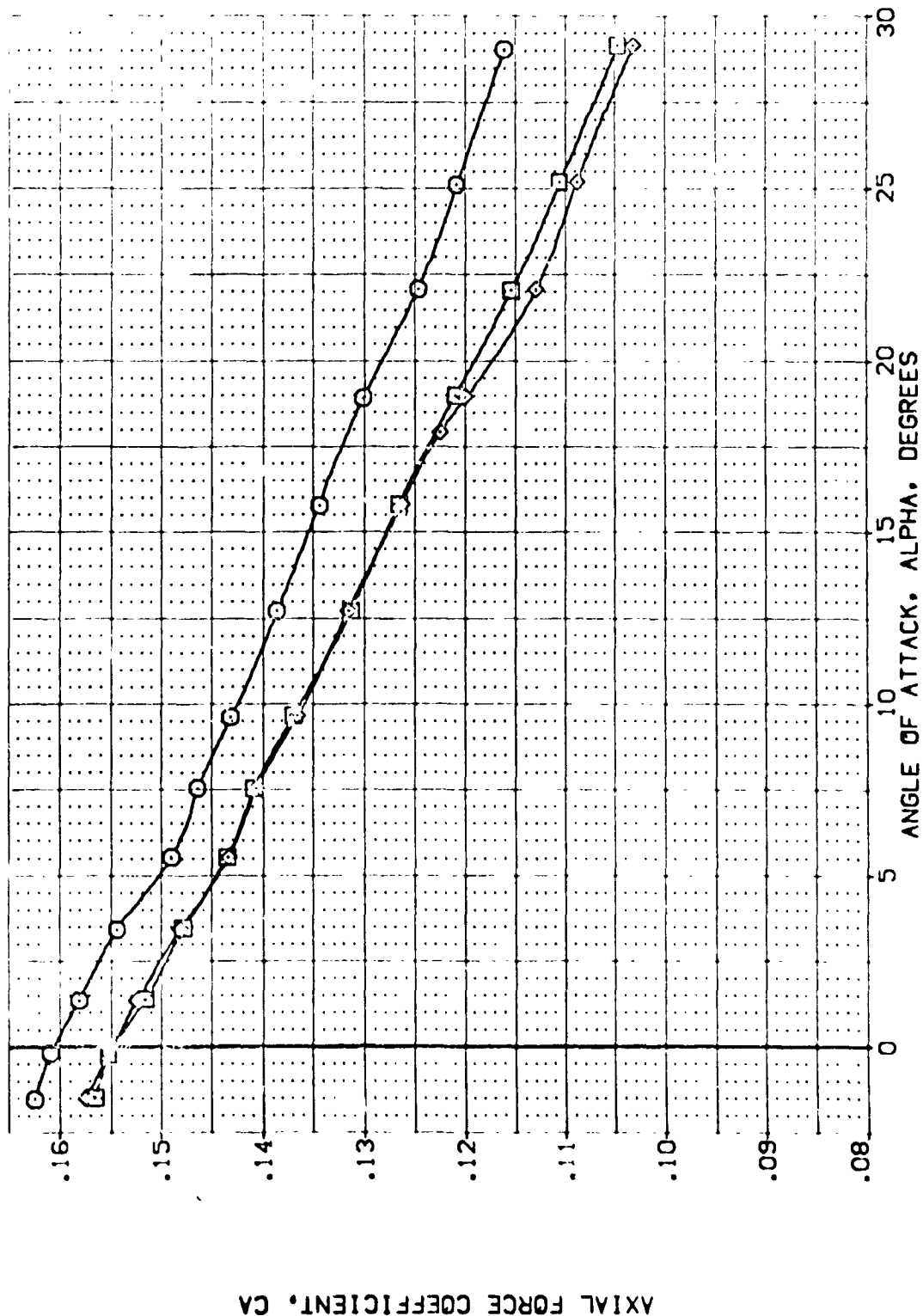


FIG. 8 BODYFLAP EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEV	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEK010)	ARC 97-747 DAS33 B C H F VI V	.000	.000	16.300	55.000	SREF 2.4210
(TEK016)	ARC 97-747 DAS33 B C H F VI V	.000	.000	.000	55.000	LREF 14.2410
(TEK011)	ARC 97-747 DAS33 B C H F VI V	.000	.000	-11.700	55.000	EYEF 23.1600
						XP-3 32.0000
						YREF 0.0000
						ZREF 11.0000
						SCALE 10.00

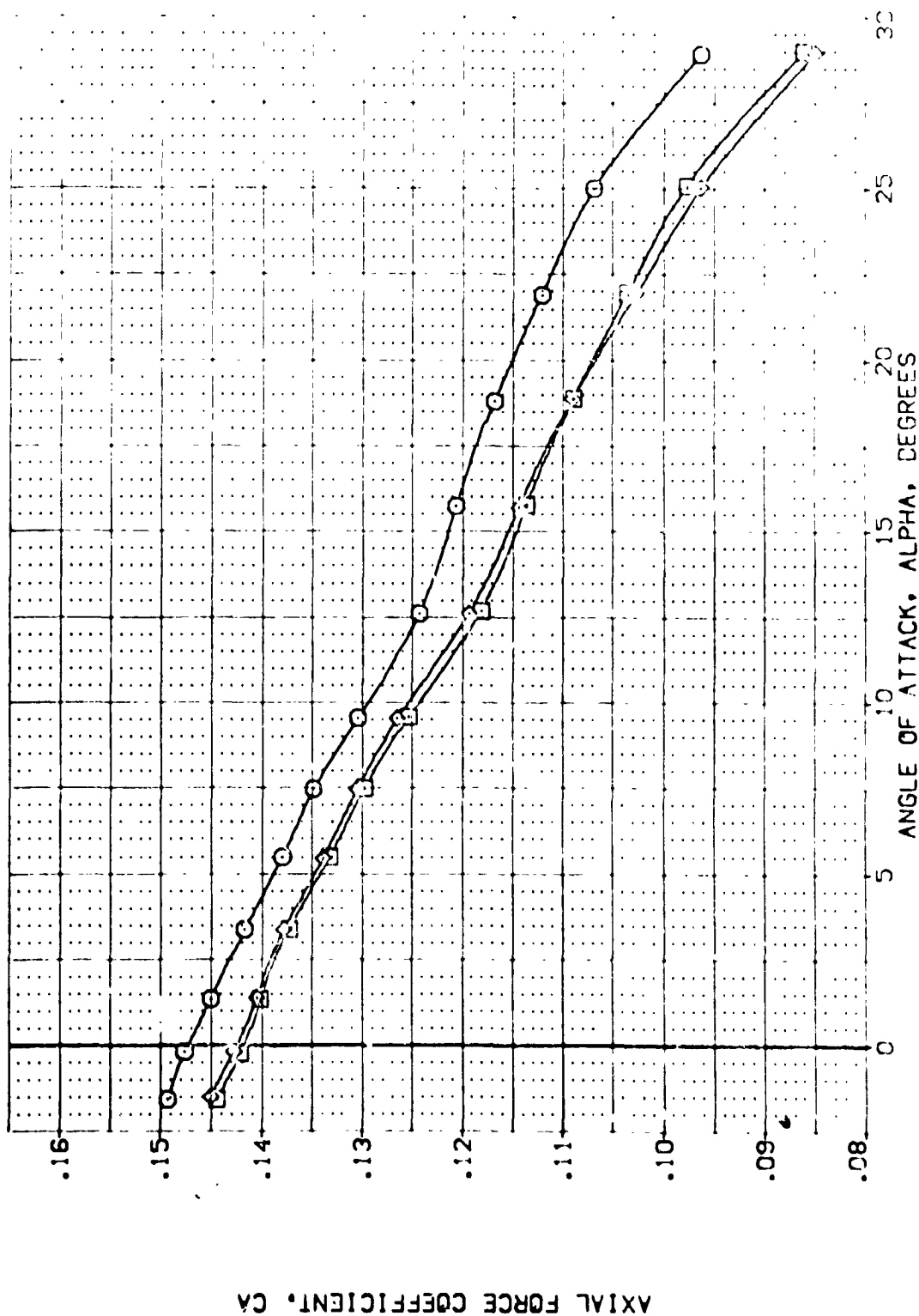


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AILLON	SDFLAP	SPDRK	REFERENCE INFORMATION
(TEK010)	ARC 97-747 CAS-3 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210 50.171
(TEK016)	ARC 97-747 CAS-3 B C M F VI V	.000	.000	.000	55.000	LREF 14.2470 11.1
(TEK011)	ARC 97-747 CAS-3 B C M F VI V	.000	.000	-11.700	55.000	BREF 20.1000 11.1
						XREF 32.1000 11.1
						YREF 11.1000 11.1
						ZREF 11.1000 11.1
						SCALE .0000

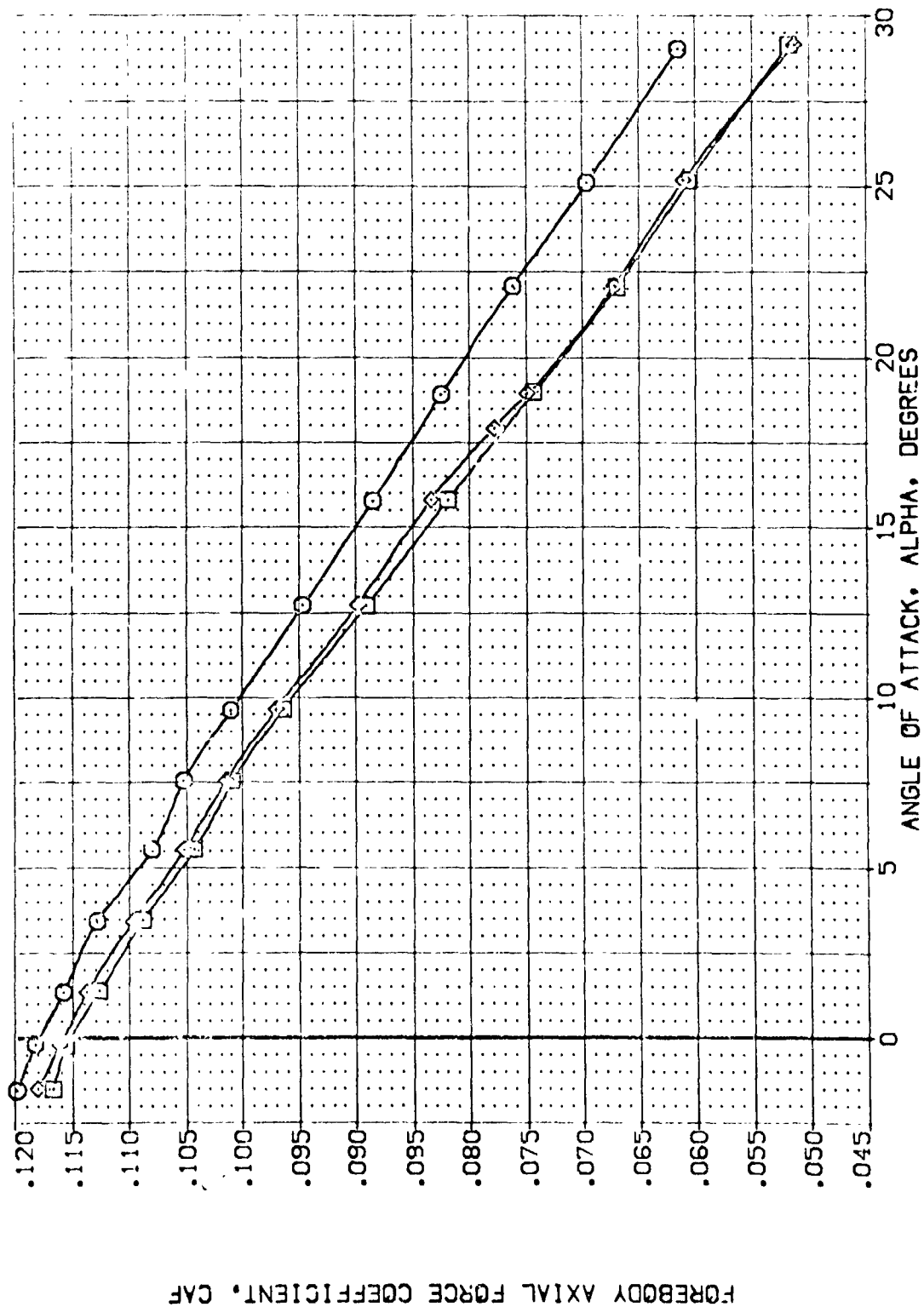


FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BO/LAP	SPOORK	REFERENCE INFORMATION
(TEK010)	ARC 97-747 DAS38 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210
(TEK016)	ARC 97-747 DAS38 B C M F VI V	.000	.000	.000	55.000	LREF 14.2440
(TEK011)	ARC 97-747 DAS38 B C M F VI V	.000	.000	-11.700	55.000	EREF 20.1000
						XMREF 32.5010
						YMREF .0000
						ZMREF 11.2500
						SCALE .0000

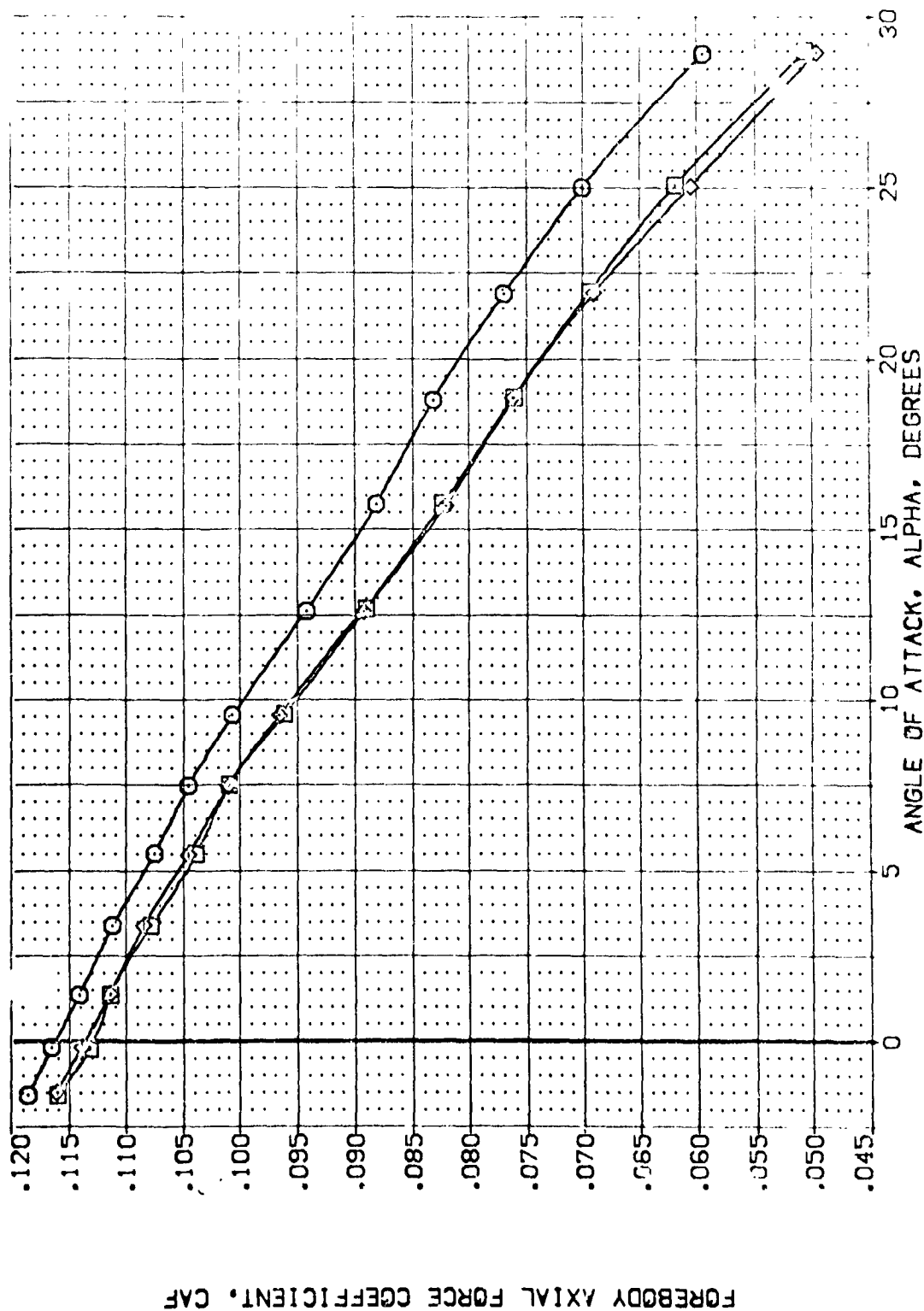


FIG. 8 BODYFLAP EFFECTS
(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOILER	REFERENCE INFORMATION
(TENG10)	ARC 97-747 0A503 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210 SQ.FT.
(TENG18)	ARC 97-747 0A503 B C M F VI V	.000	.000	.000	55.000	LREF 14.2440 IN.
(TENG11)	ARC 97-747 0A503 B C M F VI V	.000	.000	-11.700	55.000	SREF 23.1004 IN.
						XREF 32.0010 IN.
						YREF 11.0000 IN.
						ZREF 11.0000 IN.
						SCALE .0000

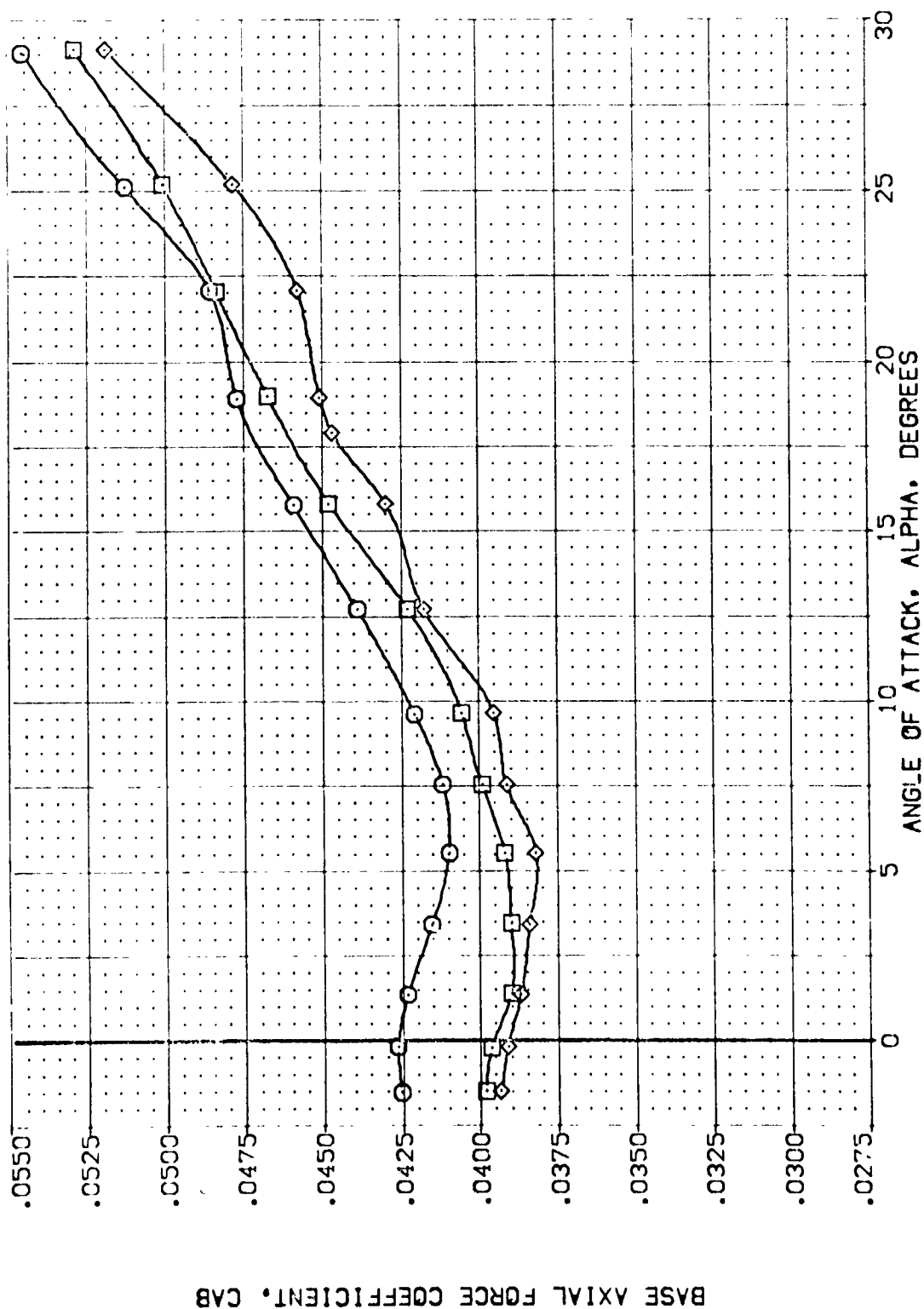


FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEK010)	ARC 97-747 DAS38 B C M F V1 V	.000	.000	16.300	55.000	SREF 2.4210 SQ.FT.
(TEK016)	ARC 97-747 DAS33 B C M F V1 V	.000	.000	.000	55.000	LREF 14.240 IN.
(TEK011)	ARC 97-747 DAS33 B C M F V1 V	.000	.000	-11.700	55.000	BREF 23.1004 IN.
						XMRP 32.9010 IN.
						YMRP .0000 IN.
						ZMRP 11.2000 IN.
						SCALE .0000

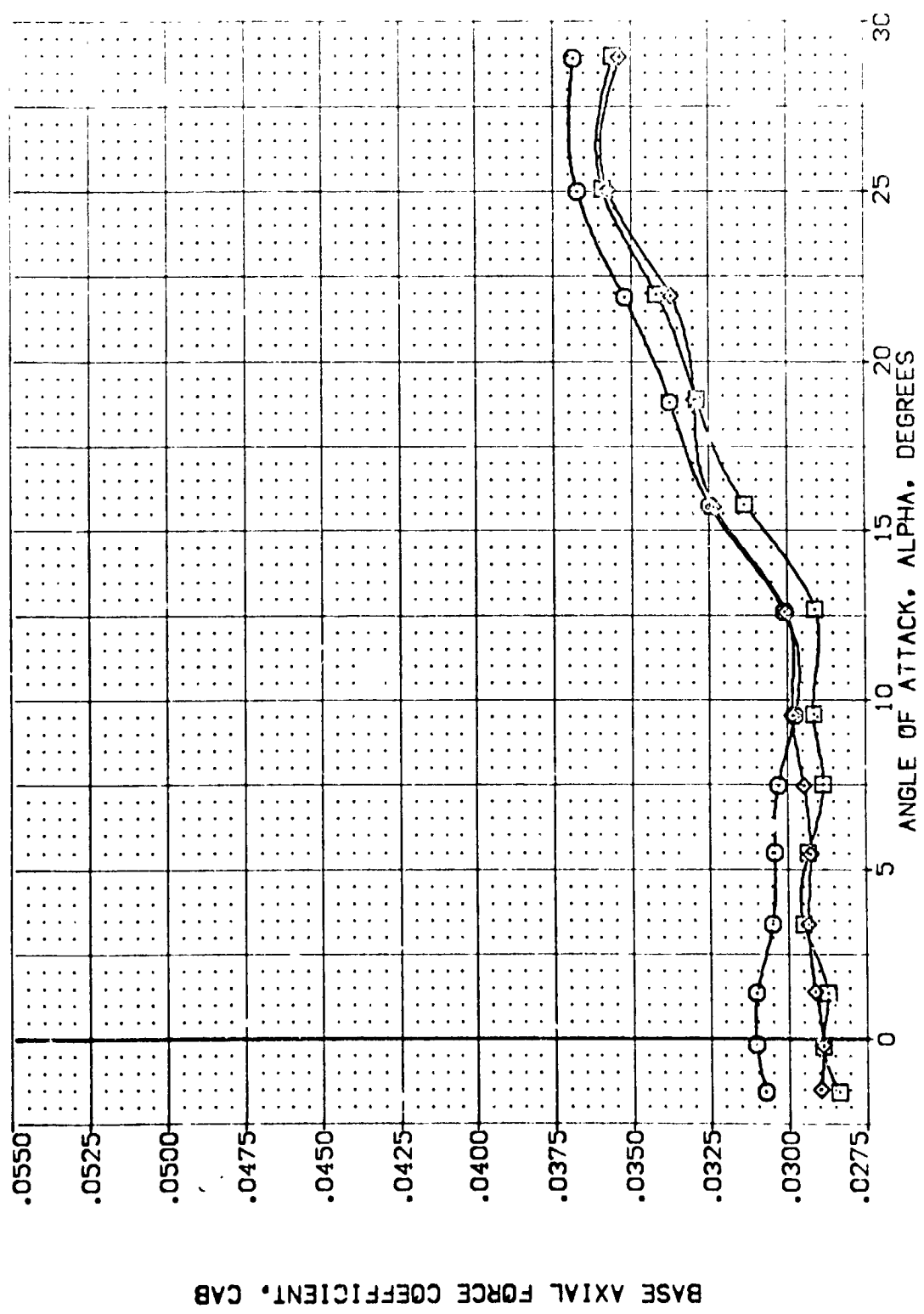


FIG. 8 BODYFLAP EFFECTS

(C)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPODBRK	REFERENCE INFORMATION
[TEK010]	ARC 97-747 CAS33 B C M F VI V	.000	.000	16.200	55.000	SPKE 2.4210 SC.FT.
[TEK016]	ARC 97-747 CAS33 B C M F VI V	.000	.000	.000	55.000	SPKE 14.2240 IN.
[TEK011]	ARC 97-747 CAS33 B C M F VI V	.000	.000	-11.700	55.000	SPKE 20.1004 IN.
						SPKE 22.5010 IN.
						SPKE 11.0000 IN.
						SCALE .0000

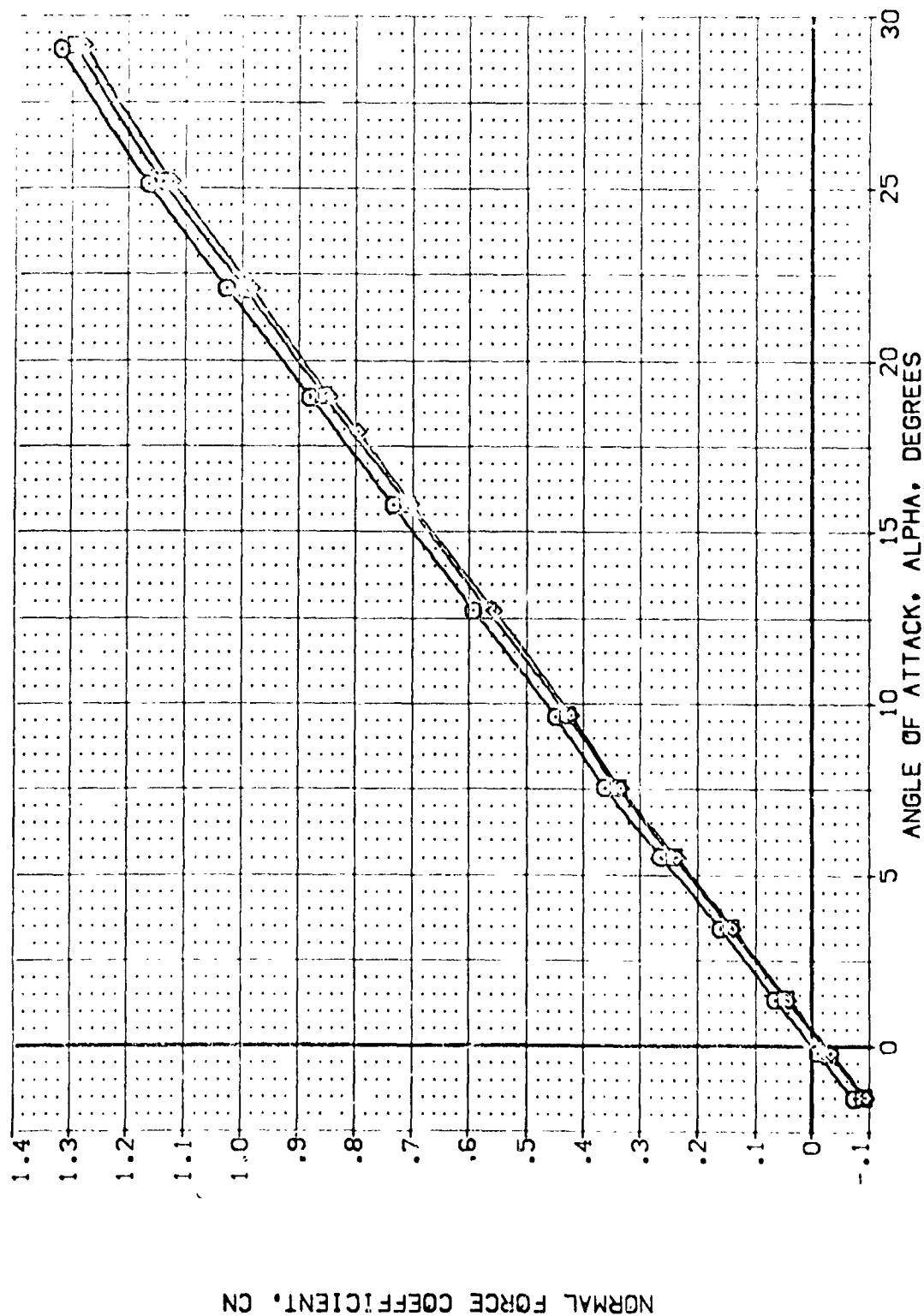


FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AIRLON	BDFLAP	SPARK	REFERENCE INFORMATION
[TEK010]	ARC 97-747 OAS33 B C M F V1 V	.000	.000	16.300	55.000	SREF 2.4210
[TEK016]	ARC 97-747 OAS33 B C M F V1 V	.000	.000	.000	55.000	LREF 14.2400
[TEK011]	ARC 97-747 OAS33 B C M F V1 V	.000	.000	-11.700	55.000	EREF 29.1004
						XREF 32.0000
						YREF 0.0000
						ZREF 11.0000
						SCALE .0000

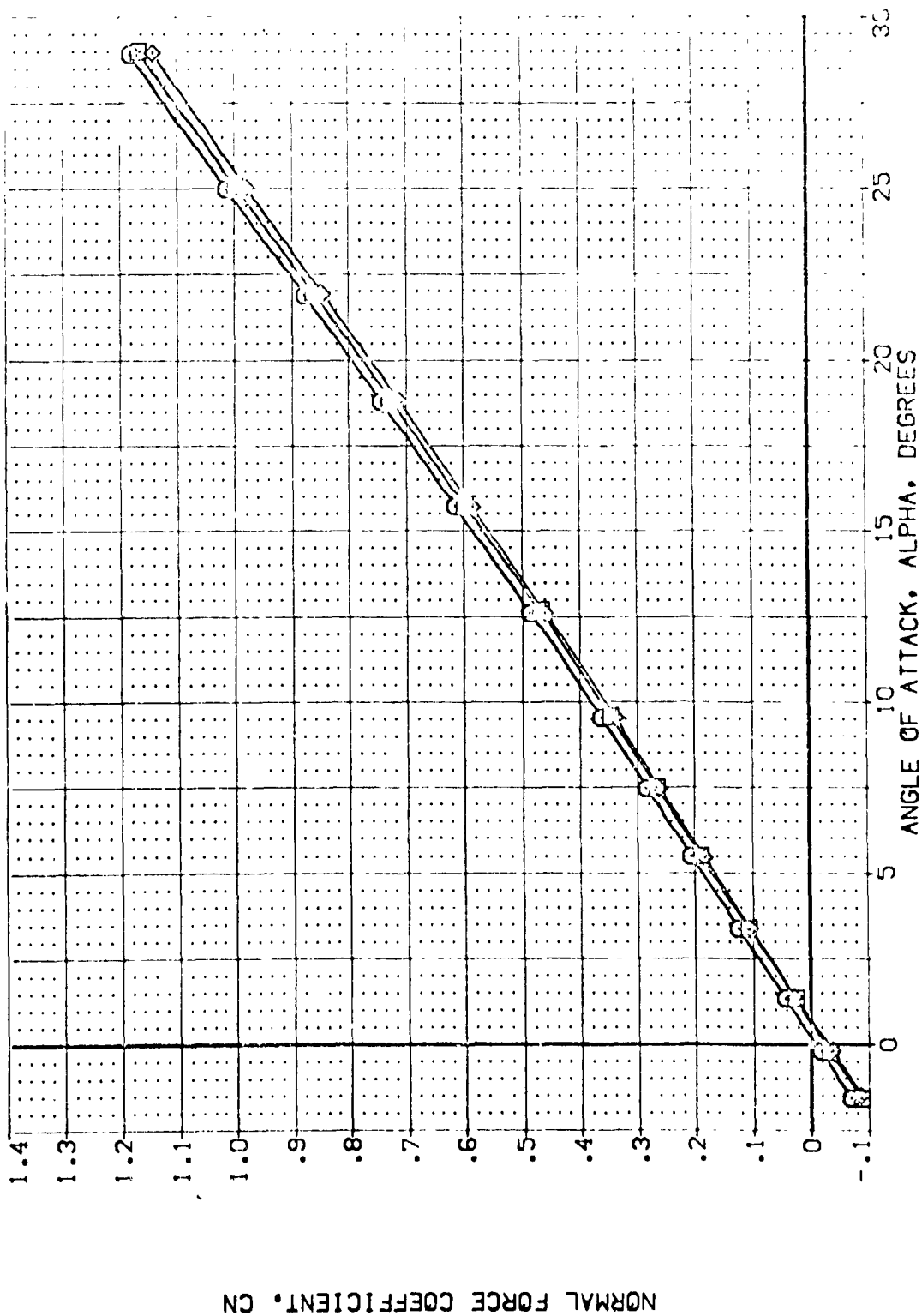


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BODYFLAP	SP000RK	REFERENCE INFORMATION
Q	ARC 97-747 OA538 B C M F V	.000	.000	16.300	55.000	SREF 2.4210 SQ.FT.
[TE016]	ARC 97-747 OA538 B C M F V	.000	.000	16.300	55.000	LREF 14.2400 IN.
[TE011]	ARC 97-747 OA538 B C M F V	.000	.000	-11.700	55.000	BREF 28.1004 IN.
						YREF 32.0010 IN.
						ZREF 11.0000 IN.
						SCALE .0000

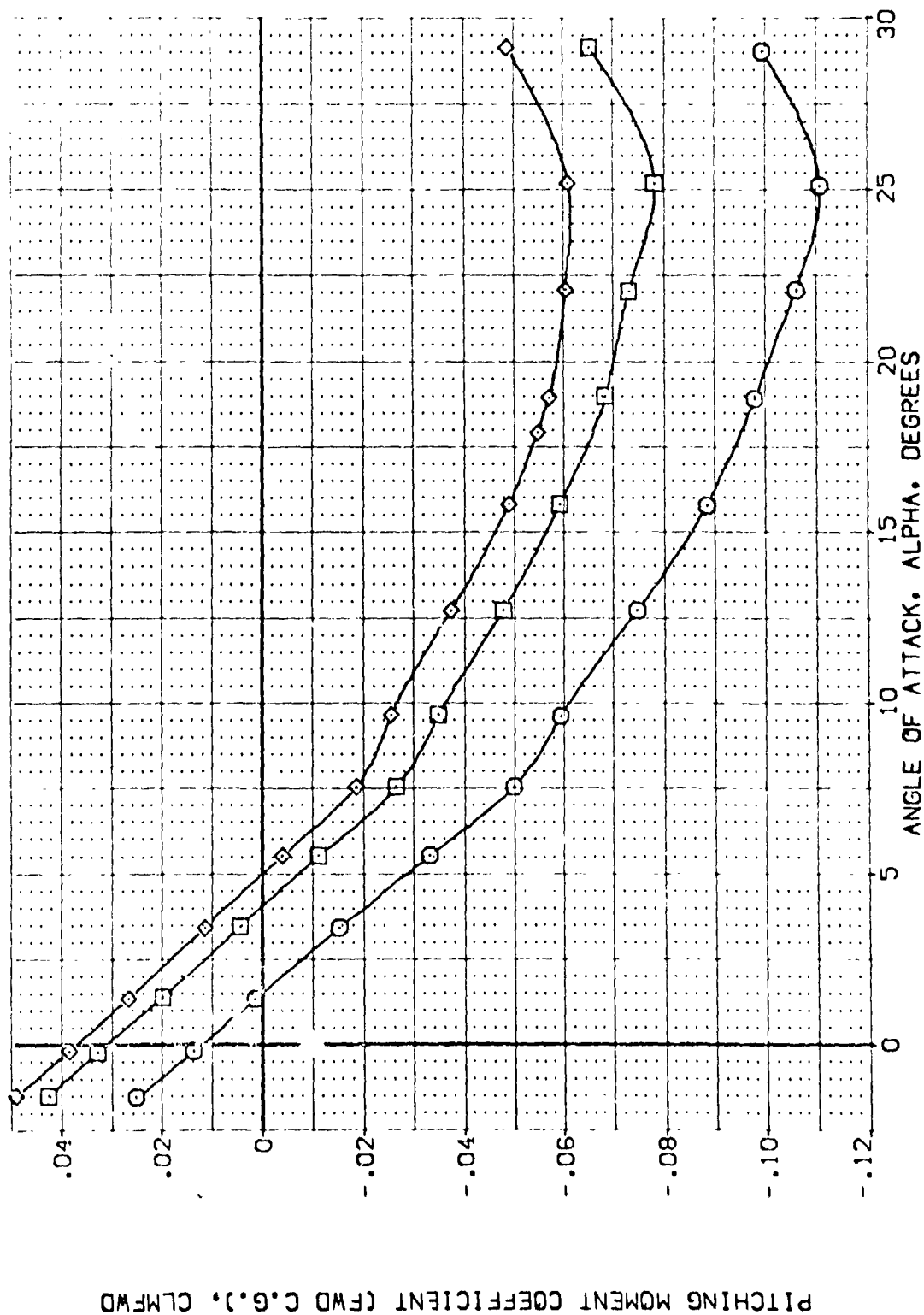
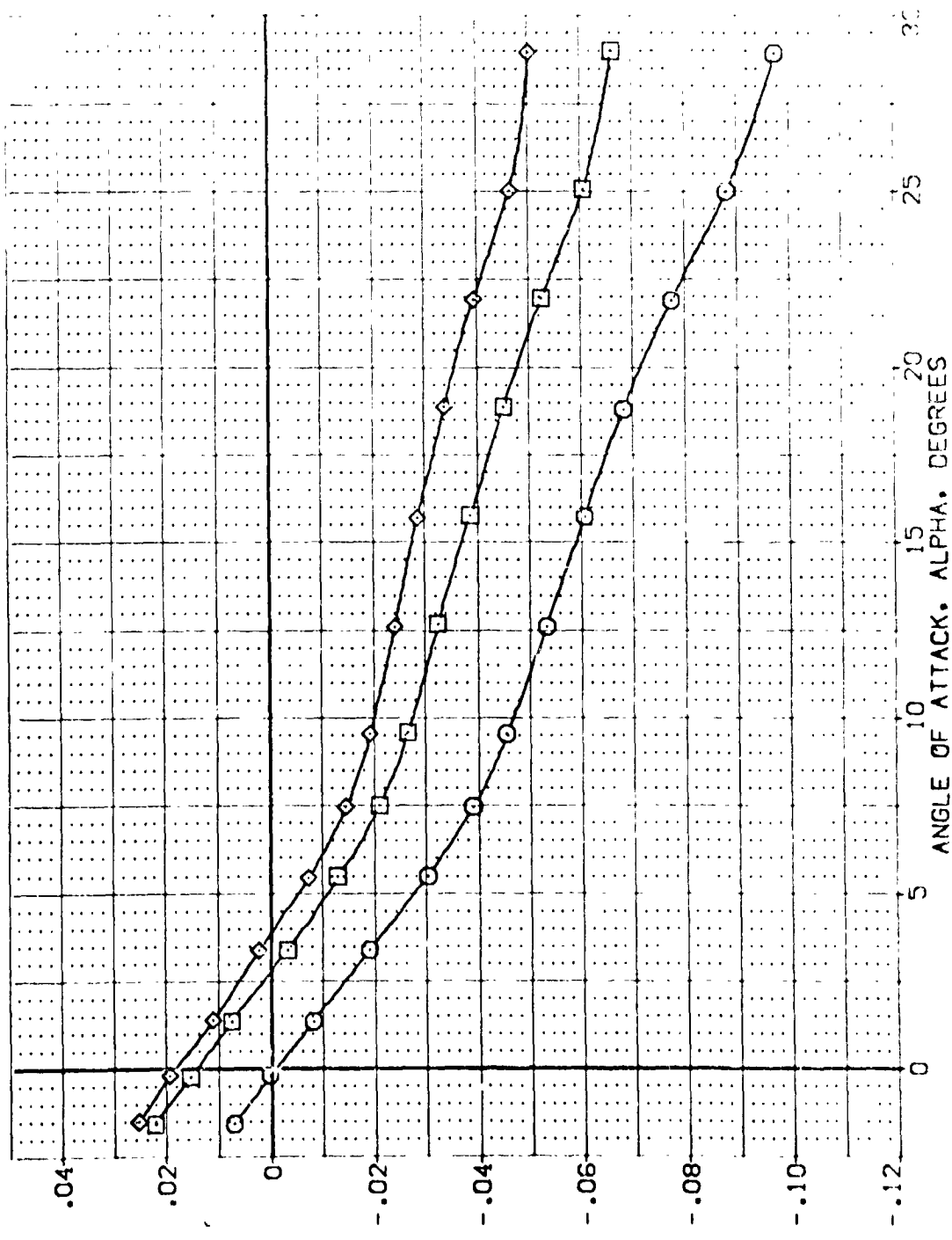


FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEK010)	ARC 97-747 DAS38 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210 SC.FT.
(TEK016)	ARC 97-747 DAS38 B C M F VI V	.000	.000	.000	55.000	LREF 14.2400 IN.
(TEK011)	ARC 97-747 DAS38 B C M F VI V	.000	.000	-11.700	55.000	BREF 23.1004 IN.
						XMREF 37.0010 IN.
						YMREF 0.0000 IN.
						ZMREF 11.7000 IN.
						SCALE 0.0000



PITCHING MOMENT COEFFICIENT (FWD C.G.), CLMFW

FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOILER	REFERENCE INFORMATION
(TEK010)	ARC 97-747 CAS03 B C H F V1 V	.000	.000	16.300	55.000	SREF 2.4210 SQ.FT.
(TEK015)	ARC 97-747 CAS03 B C H F V1 V	.000	.000	.000	55.000	LRREF 14.2440 IN.
(TEK011)	ARC 97-747 CAS03 B C H F V1 V	.000	.000	-11.700	55.000	ERREF 20.1004 IN.
						XREF 32.5010 IN.
						YREF .0000 IN.
						ZREF 11.2500 IN.
						SCALE .0000

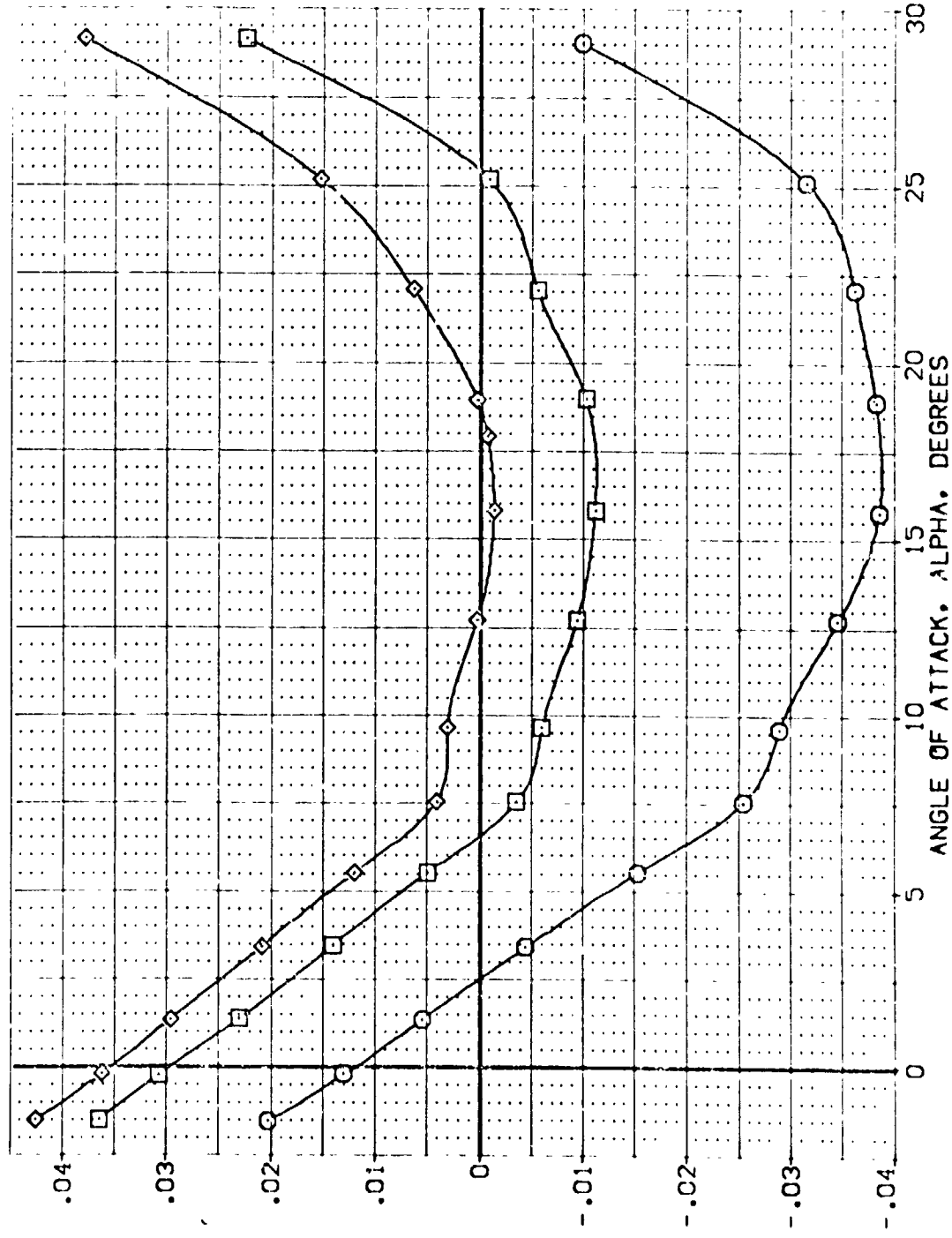


FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BODYFLAP	SPOILER	REFERENCE INFORMATION
(TEND10)	ARC 97-747 BA538 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210
(TE-016)	ARC 97-747 BA538 B C M F VI V	.000	.000	.000	55.000	LREF 14.2440
(TEND11)	ARC 97-747 BA538 B C M F VI V	.000	.000	-11.700	55.000	BREF 20.1004
						XMREF 32.2010
						YMREF 11.2530
						ZMREF 11.2530
						SCALE .0000

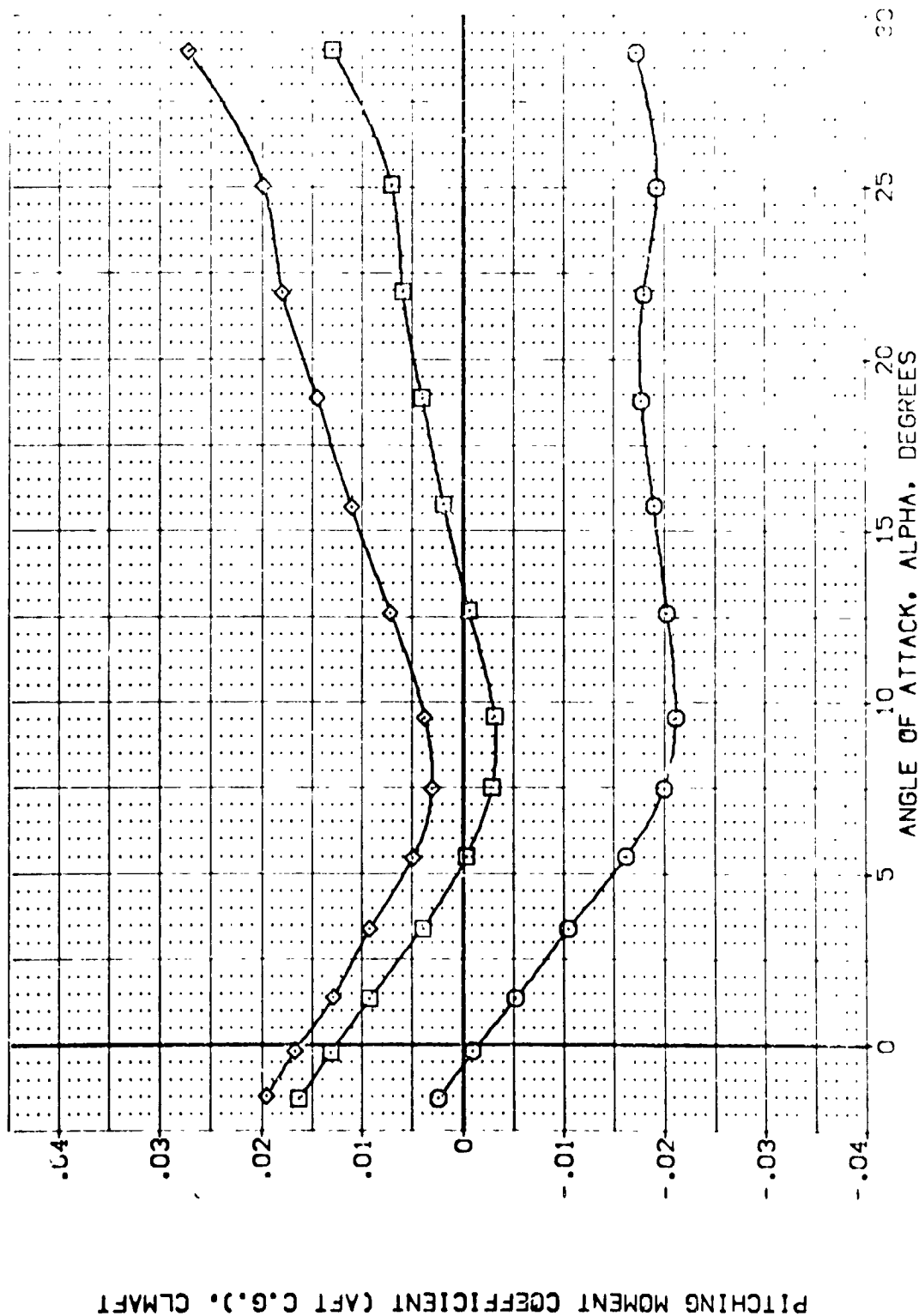


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BODYFLAP	SPD200K	REFERENCE INFORMATION
(TE010)	ARC 97-747 B C M F VI V	.000	.000	16.000	55.000	SPREF 2.4210 52.57
(TE016)	ARC 97-747 B C M F VI V	.000	.000	16.000	55.000	LPREF 14.2470 14
(TE011)	ARC 97-747 C-533 B C M F VI V	.000	.000	-11.700	55.000	EPREF 22.1004 14
						YMREF 52.5010 14
						ZMREF 11.1000 14
						SCALE 10.00

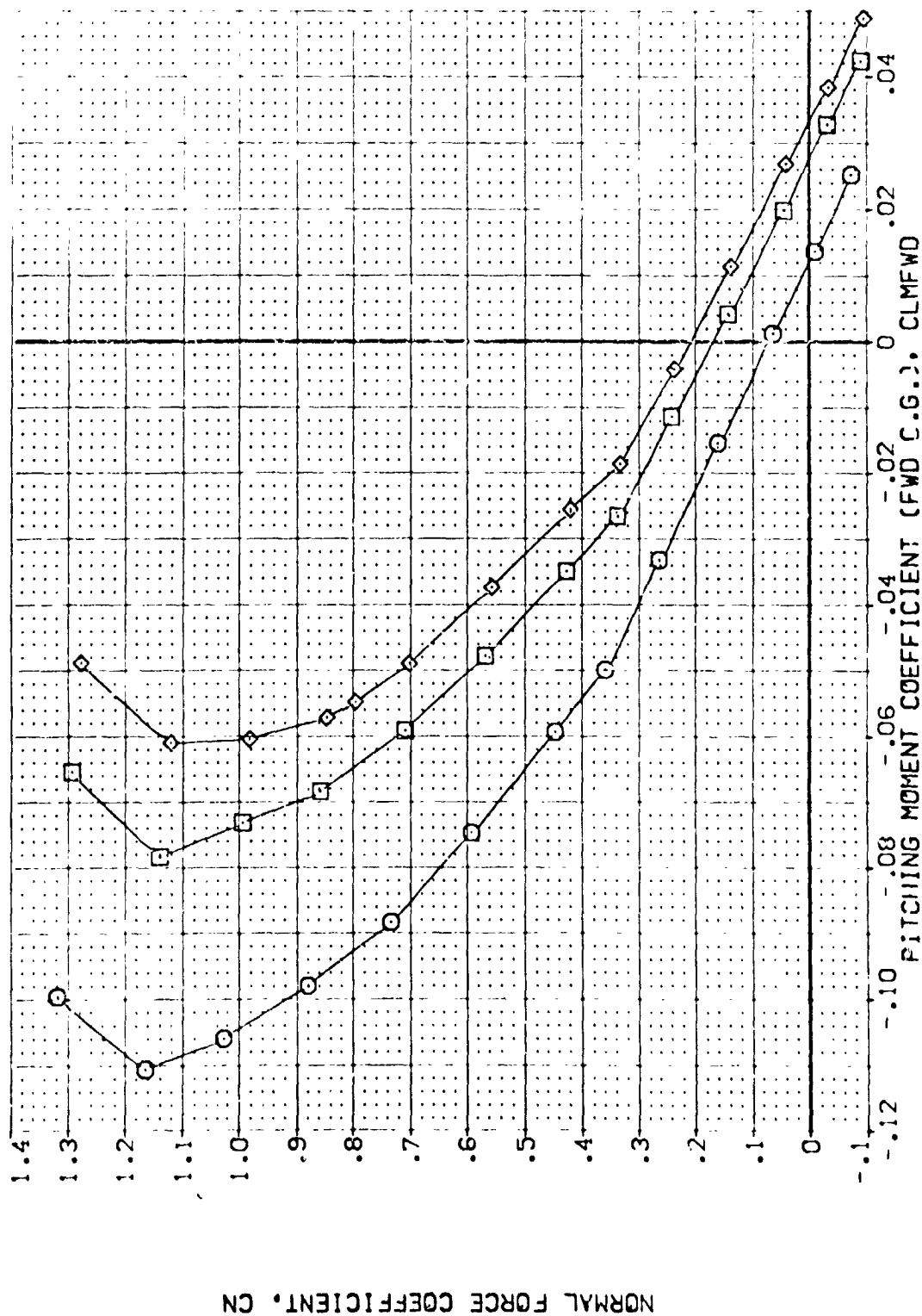


FIG. 8 BODYFLAP EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOILER	REFERENCE INFORMATION
(TEND10)	ARC 97-747 DAS38 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210
(TEND16)	ARC 97-747 DAS33 B C M F VI V	.000	.000	.000	55.000	LREF 14.2440
(TEND11)	ARC 97-747 DAS33 B C M F VI V	.000	.000	-11.700	55.000	EREF 20.1031
						XREF 32.1010
						YREF 11.0000
						ZREF 11.0000
						SCALE .0000

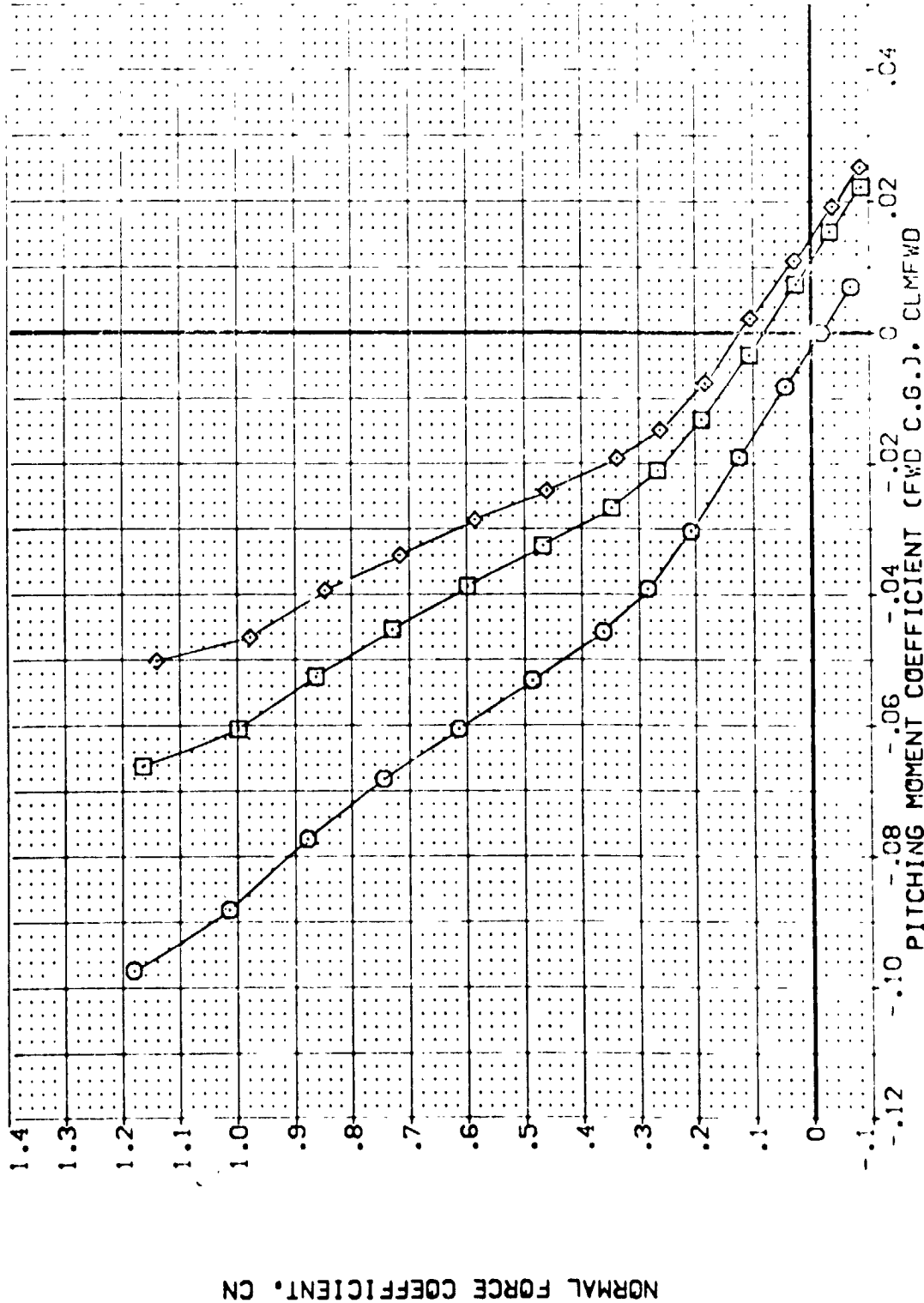
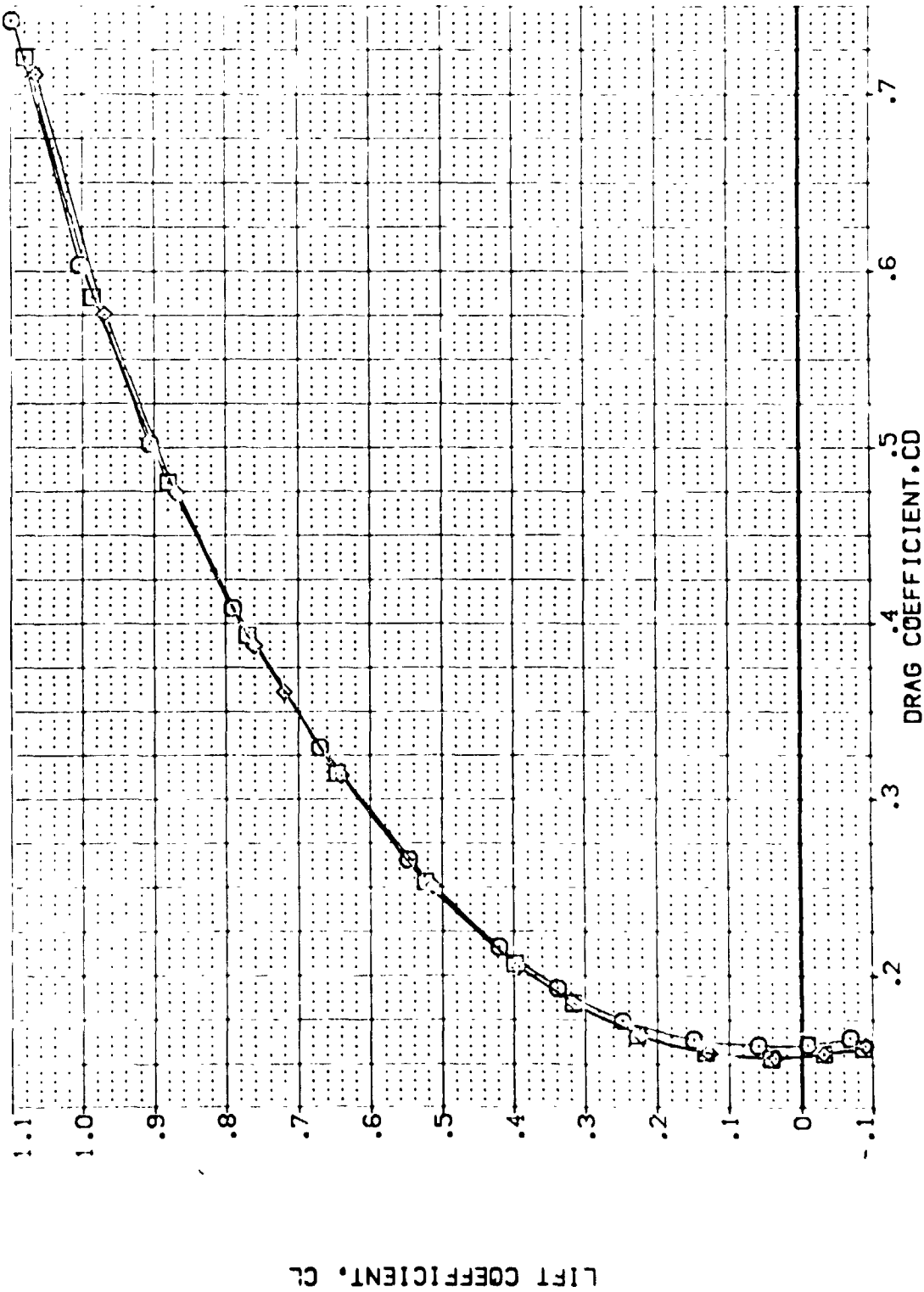


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOILER	REFERENCE INFORMATION
[TEK010]	ARC 97-747 0A503 B C H F VI V	.000	.000	16.300	55.000	SREF 2.4210 SQ.FT.
[TEK016]	ARC 97-747 0A503 B C H F VI V	.000	.000	.000	55.000	LREF 14.2740 IN.
[TEK011]	ARC 97-747 0A503 B C H F VI V	.000	.000	-11.700	55.000	BREF 28.1001 IN.
						XREF 32.0010 IN.
						YREF 11.2000 IN.
						ZREF 11.2000 IN.
						SCALE .0000



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEK010)	ARC 97-747 GAS38 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210 SQ.FT.
(TEK016)	ARC 97-747 GAS38 B C M F VI V	.000	.000	.000	55.000	LREF 14.2440 IN.
(TEK011)	ARC 97-747 GAS38 B C M F VI V	.000	.000	-11.700	55.000	BREF 26.1004 IN.
						XREF 37.7010 IN.
						YREF .0000 IN.
						ZREF 11.2500 IN.
						SCALE .0000

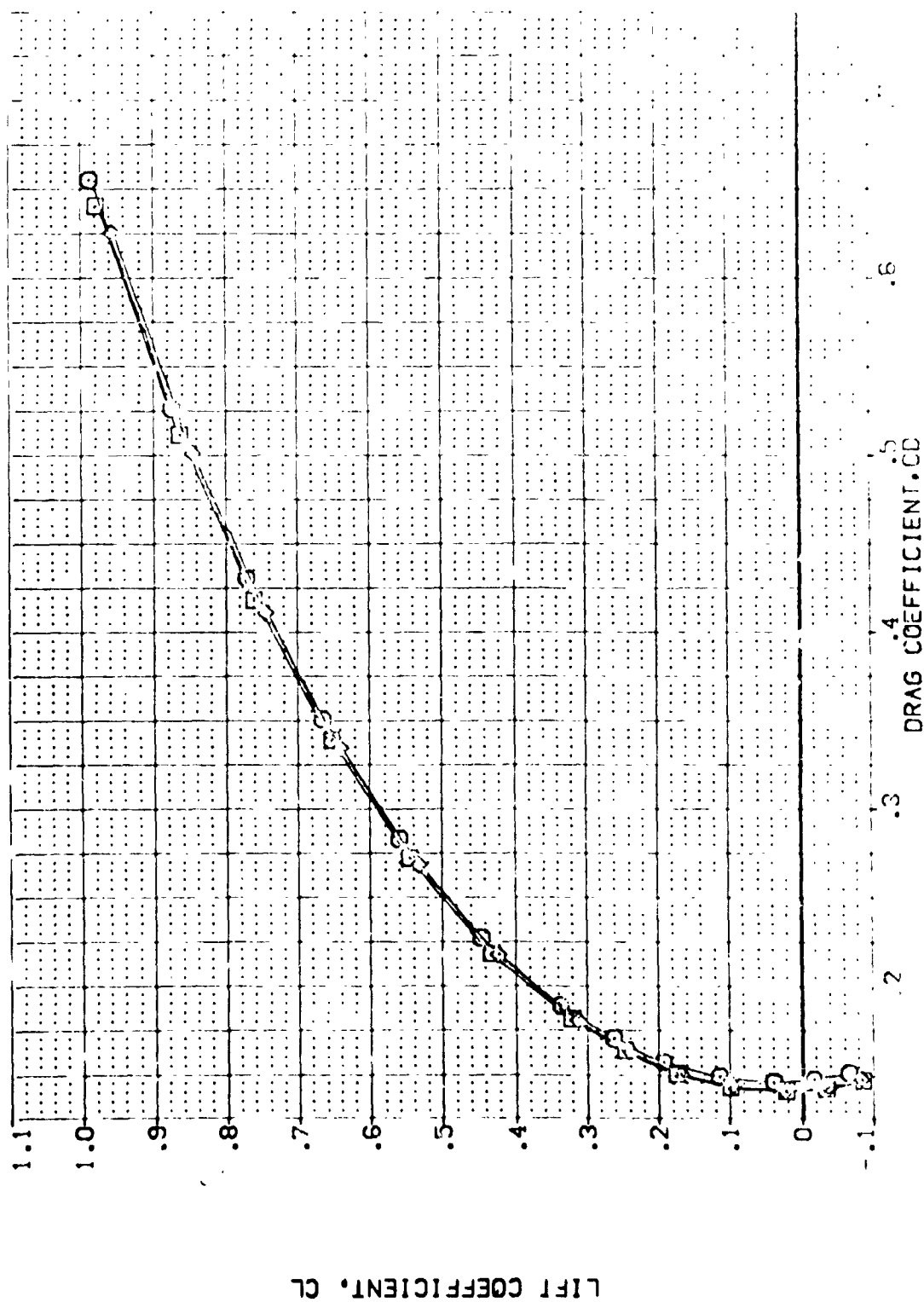


FIG. 8 BODYFLAP EFFECTS

(B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPDRBK	REFERENCE INFORMATION
(TEK010)	ARC 97-747 DAS-3 B C M F V1	.000	.000	16.300	55.000	SREF 2.4210 SQ.FT.
(TEK015)	ARC 97-747 DAS-3 B C M F V1	.000	.000	16.300	55.000	LREF 14.2440 IN.
(TEK011)	ARC 97-747 DAS-3 B C M F V1	.000	.000	-11.700	55.000	DREF 23.1004 IN.
						XREF 32.0010 IN.
						YREF .0000 IN.
						ZREF 11.2400 IN.
						SCALE .0000 CC/AL

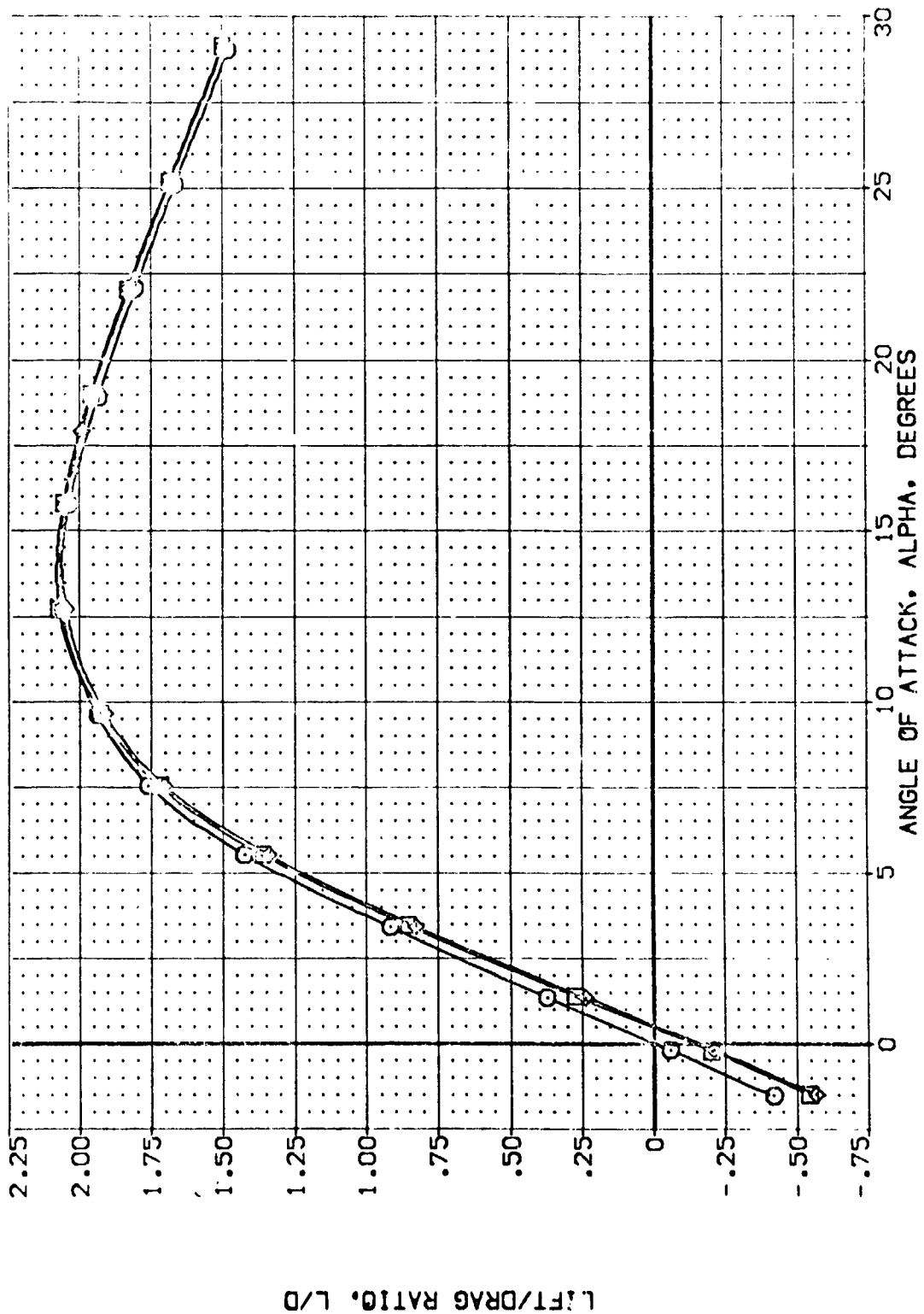


FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BODYFLAP	SPOILER	REFERENCE INFORMATION
(TEK010)	ARC 97-747 0A539 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210 SQ.FT.
(TEK016)	ARC 97-747 0A533 B C M F VI V	.000	.000	16.300	55.000	LREF 14.2440 IN.
(TEK011)	ARC 97-747 0A533 B C M F VI V	.000	.000	-11.700	55.000	BREF 23.1004 IN.
						XREF 32.0010 IN.
						WREF 11.4200 IN.
						ZREF 11.4200 IN.
						SCALE

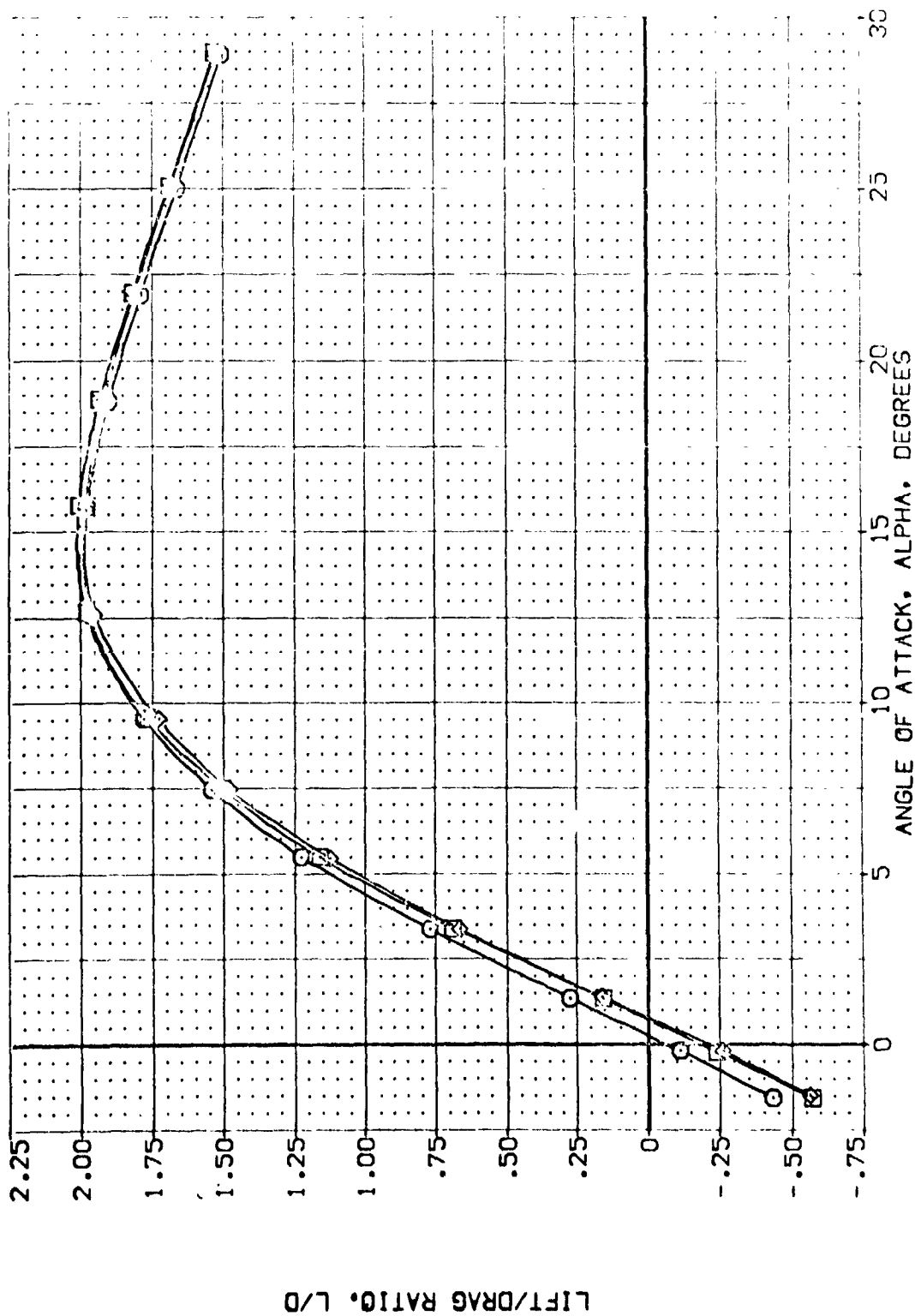


FIG. 8 BODYFLAP EFFECTS

(B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BDFLAP	SPOILER	REFERENCE INFORMATION
[AEK010]	ARC 97-747 0A503 B C M F V1 V	.000	.000	16.000	55.000	SREF 2.4210 SQ.FT.
[AEP016]	ARC 97-747 0A503 B C M F V1 V	.000	.000	.000	55.000	LREF 14.2740 IN.
[AEK011]	ARC 97-747 0A503 B C M F V1 V	.000	.000	-11.700	55.000	BREF 28.1004 IN.
						XMREF 32.0016 IN.
						YMREF 11.0000 IN.
						ZMREF .0000 IN.
						SCALE .0000

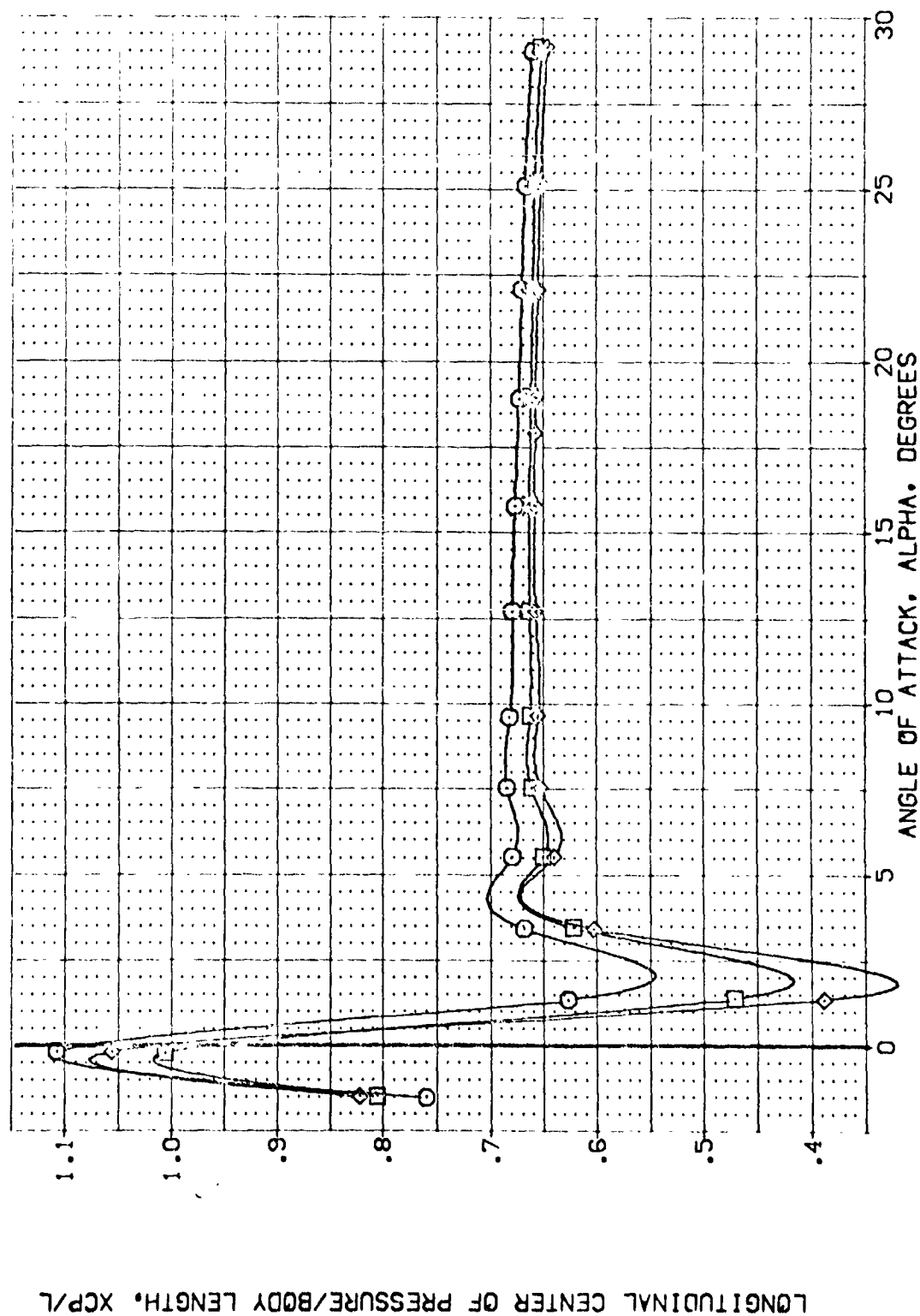


FIG. 8 BODYFLAP EFFECTS
 (A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPDBRK	REFERENCE INFORMATION
[AERQ10]	ARC 97-747 DAS38 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210 SQ. FT.
[AERQ16]	ARC 97-747 DAS38 B C M F VI V	.000	.000	.000	55.000	LREF 14.2740 IN.
[AERQ11]	ARC 97-747 DAS38 B C M F VI V	.000	.000	-11.700	55.000	BREF 28.1004 IN.
						XMTP 32.6010 IN.
						YMTP .0000 IN.
						ZMTP 11.2700 IN.
						SCALE .0033

LONGITUDINAL CENTER OF PRESSURE/BODY LENGTH, XCP/L

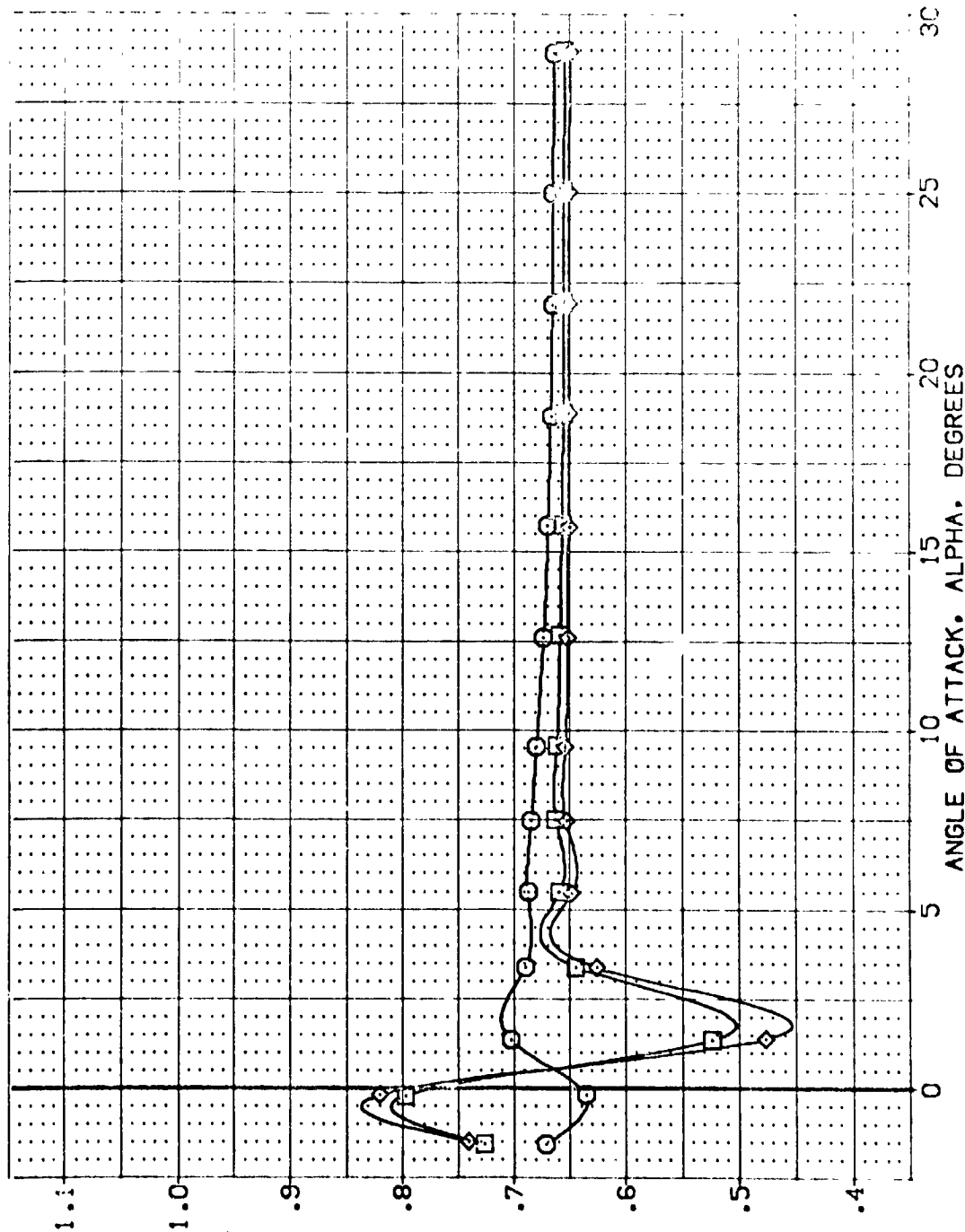


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	DBF	SPEED-K	REFERENCE INFORMATION
(VFK010)	ARC 97-747 CAS38 B C M F V	.000	.000	13.300	55.000	SREF 2.4210
(JEP011)	ARC 97-747 CAS38 B C M F V	.000	.000	-11.700	55.000	LRREF 14.2440
						BRREF 20.1004
						XRREF 22.0310
						YRREF 11.0000
						ZRREF 11.2000
						SCALE .0000

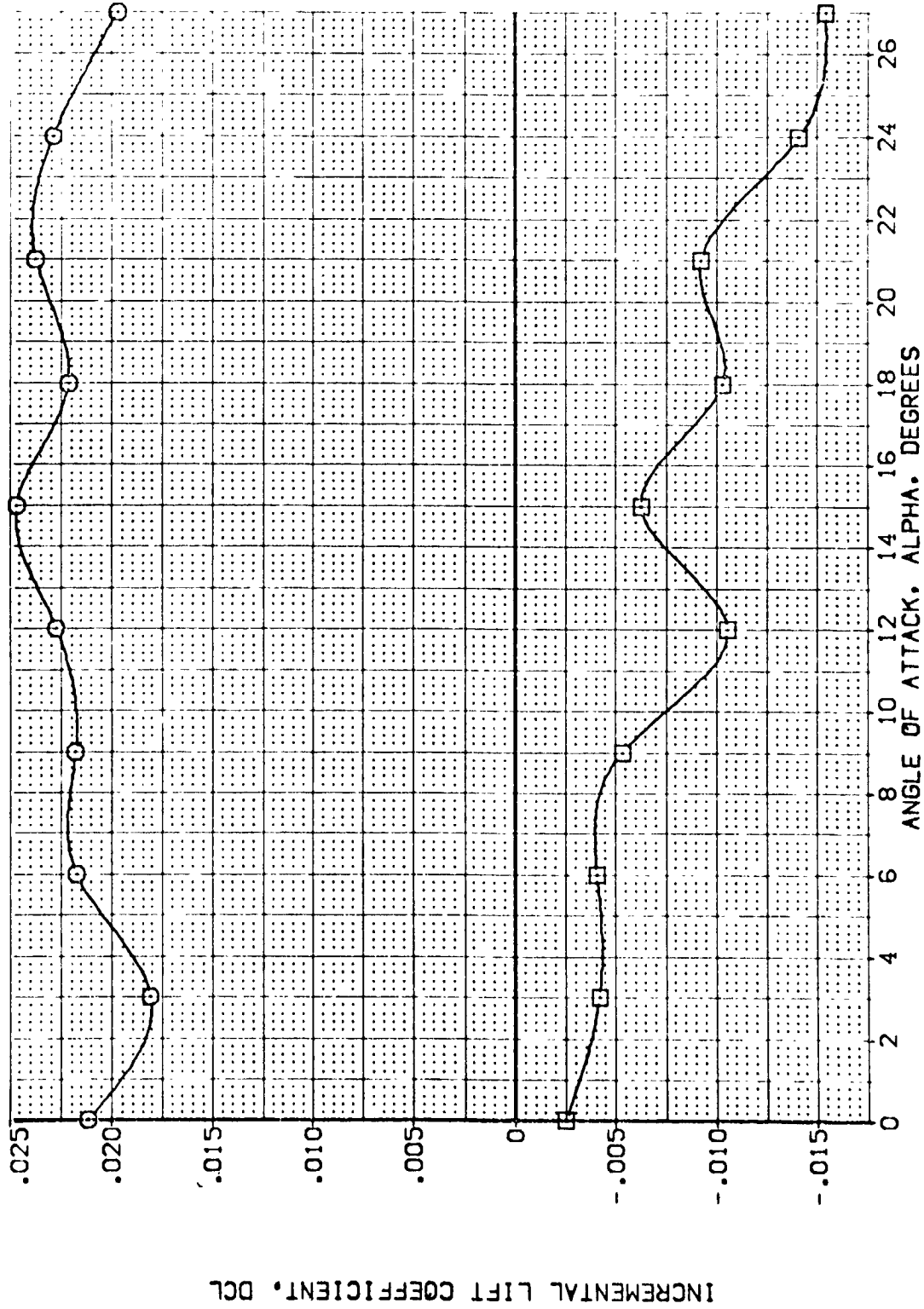


FIG. 8 BODYFLAP EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL: (VEKD10) (VEKD11)

CONFIGURATION DESCRIPTION: ARC 97-747 OAS38 B C M F VI V NOM: RVL
ARC 97-747 OAS38 B C M F VI V NOM: RVL

ELEVON: .000 .000 .000 .000

AILERON: .000 .000 .000 .000

DBF: 16.300 -11.700

SPOBRK: 55.000 55.000

REFERENCE INFORMATION: SREF: 2.4210 50. FT.
LREF: 14.2240 14. FT.
EREF: 23.1004 14. FT.
XREF: 32.0010 14. FT.
YREF: .0000 14. FT.
ZREF: 11.2000 14. FT.
SCALE: .0001

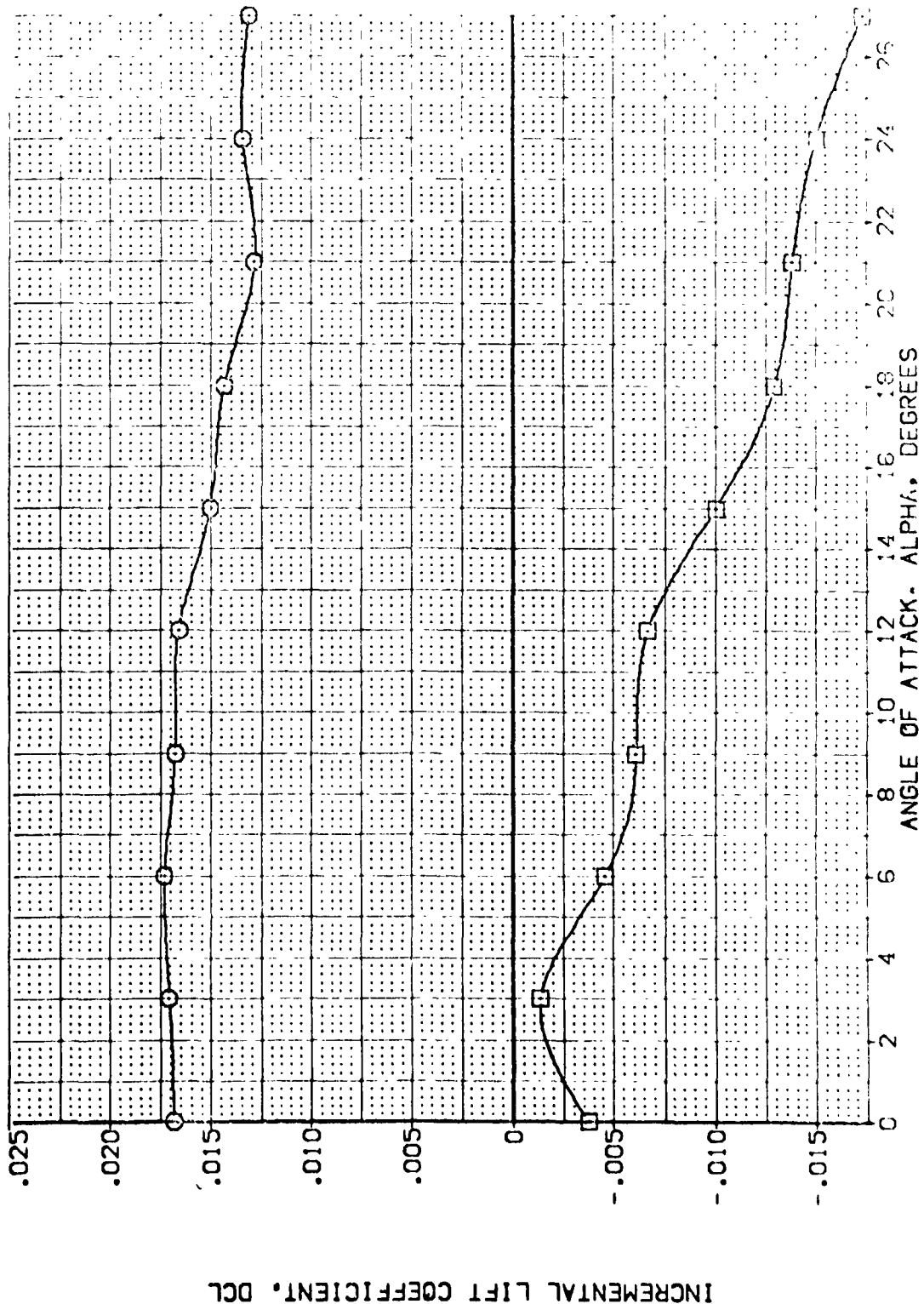


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL: (VEP010) (VEP011)

CONFIGURATION DESCRIPTION: ARC 97-747 C4538 B C M F VI V (VEP010) ARC 97-747 C4538 B C M F VI V (VEP011)

ELEVON: .000 .000

AILERON: .000 .000

DBF: 16.300 -11.700

SPOORX: 55.000 55.000

REFERENCE INFORMATION: SPEC 2.4210 COL. F. 14.2140 23.1000 32.5510 11.2000 SCALE .0000

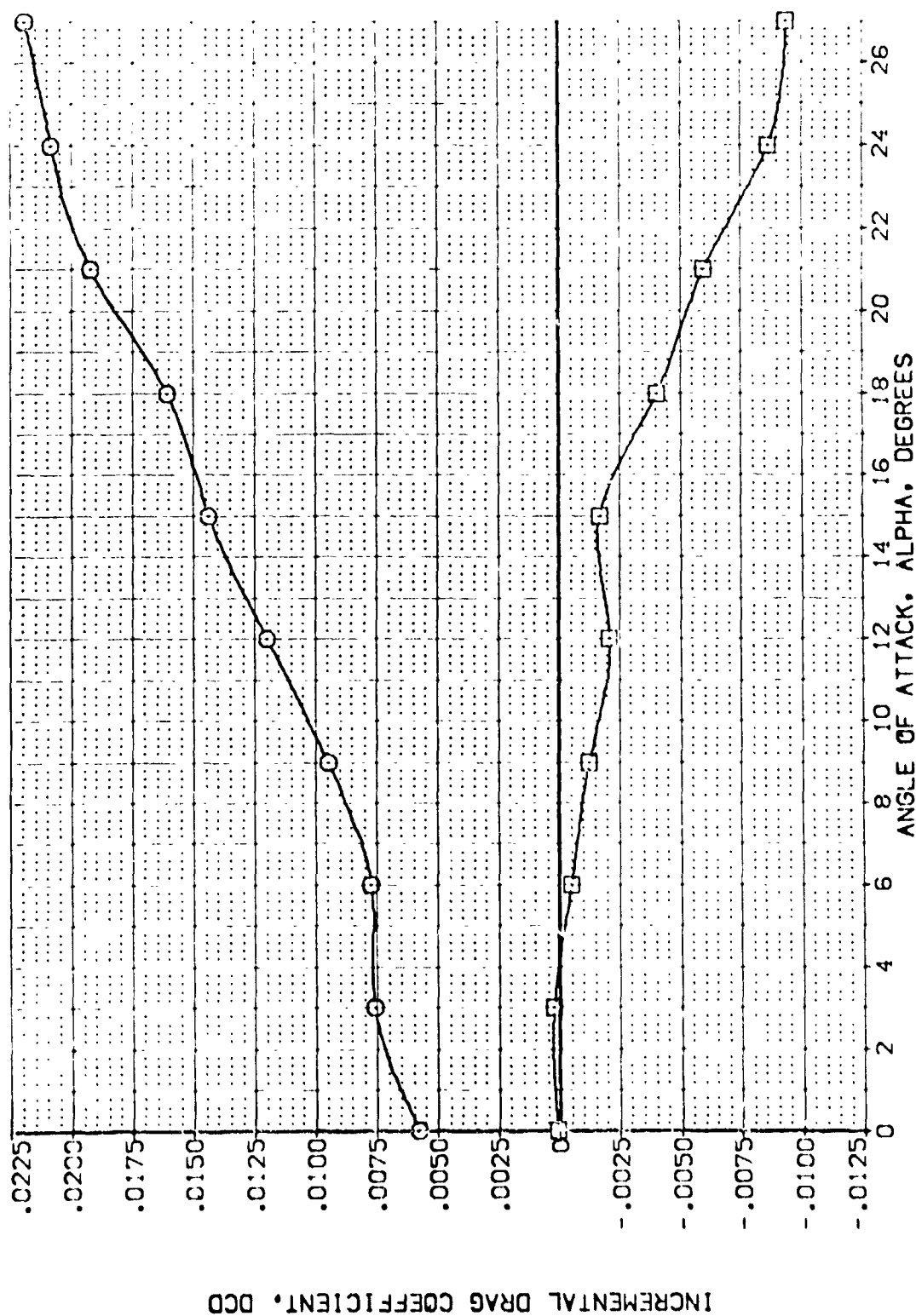


FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AIRLIFT	DEF	SPODBK	REFERENCE INFORMATION
[VEN010]	ARC 97-747 B4538 B C M F V1 V	.000	.000	16.300	55.000	SREF 2.4210 50. FT.
[VEN011]	ARC 97-747 B4538 B C M F V1 V	.000	.000	-11.700	55.000	LREF 14.2440 14. IN.
						BREF 28.1004 14. IN.
						XREF 32.0016 14. IN.
						YREF .0000 14. IN.
						ZREF 11.2500 14. IN.
						SCALE .0000 SCALE

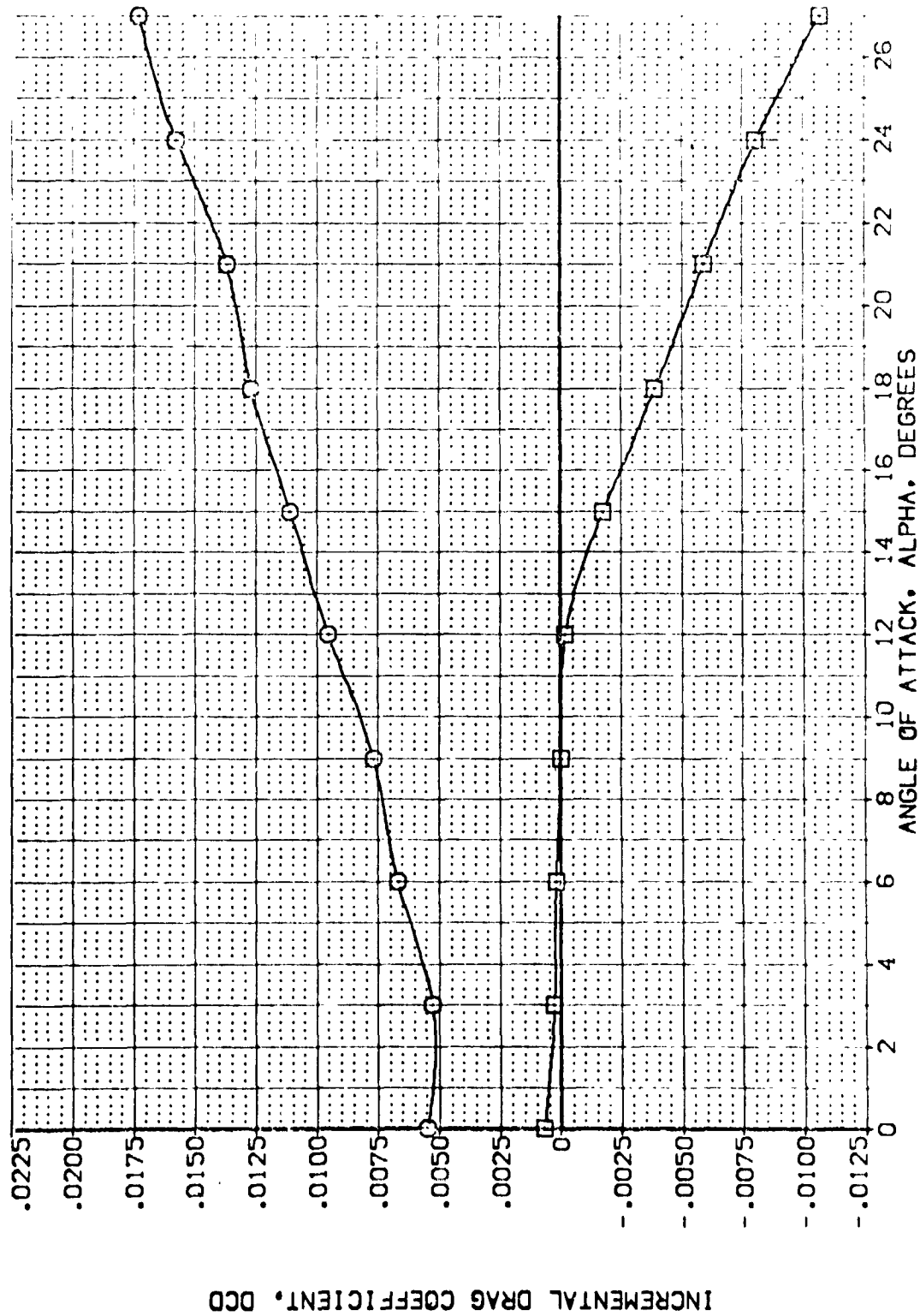


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	DBF	SPOILERK	REFERENCE INFORMATION
(VFM010)	ARC 97-747 BASE3 B C H F VI V	.000	.000	16.300	55.000	SREF 2.4210 50. FT.
(VFM011)	ARC 97-747 BASE3 B C H F VI V	.000	.000	-11.700	55.000	LREF 14.2140 1N.
						GMREF 20.1001 1N.
						XMREF 32.0010 1N.
						YMREF .0000 1N.
						ZMREF 11.0000 1N.
						SCALE .0000 SCALE

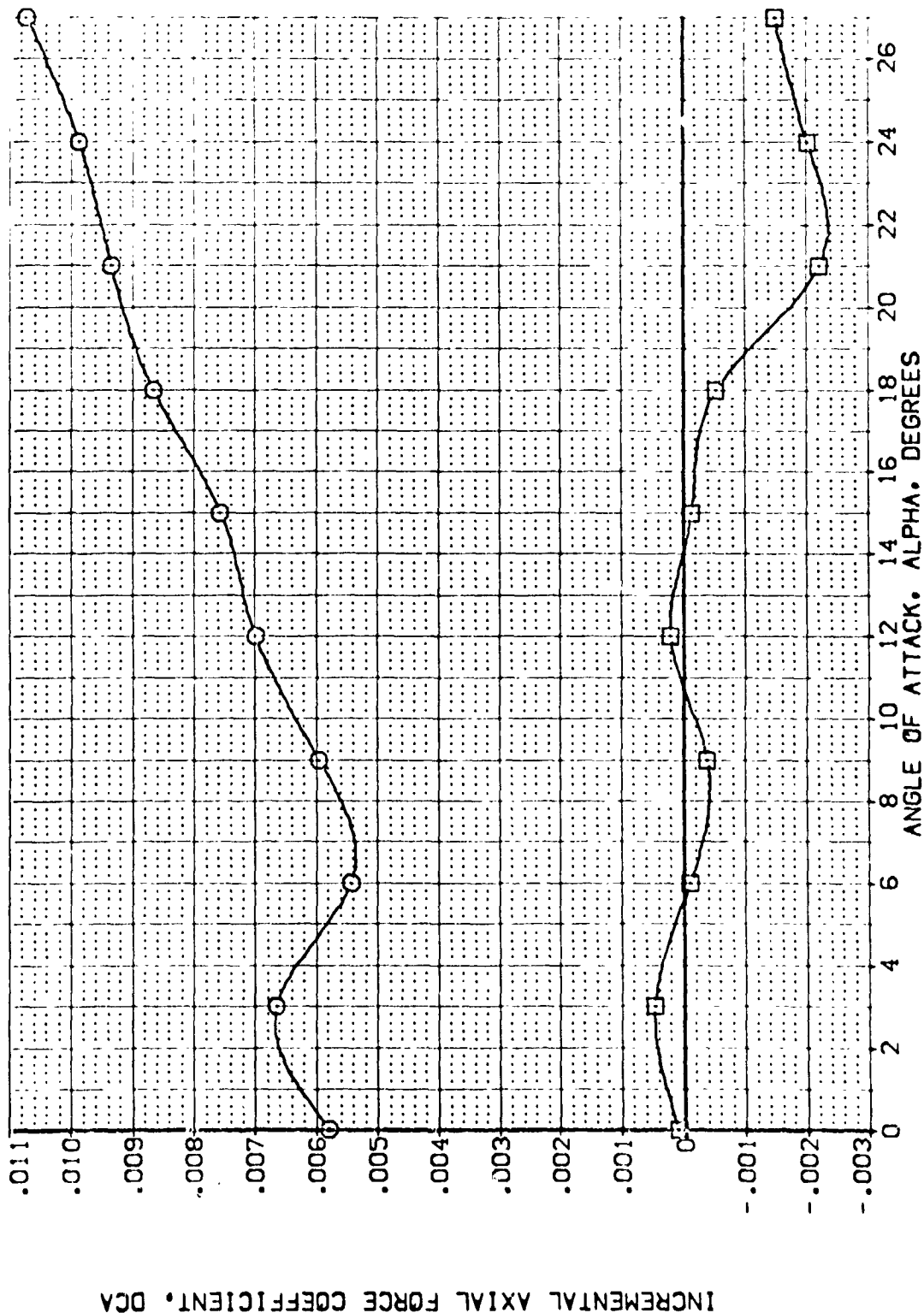


FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL: []
 CONFIGURATION DESCRIPTION: ARC 97-747 BAS3B B C H F VI V NOM. RWL
 (VEK010) []
 (VEK011) []

ELEVON: .000
 AIRLON: .000
 DEF: 16.300
 SPOBRK: 55.000
 55.000

REFERENCE INFORMATION:
 SREF: 2.4210 SQ. FT.
 LREF: 14.2240 IN.
 EXREF: 32.1004 IN.
 XPRP: 0.0000 IN.
 YPRP: 0.0000 IN.
 ZPRP: 0.0000 IN.
 SCALE: 1:10000

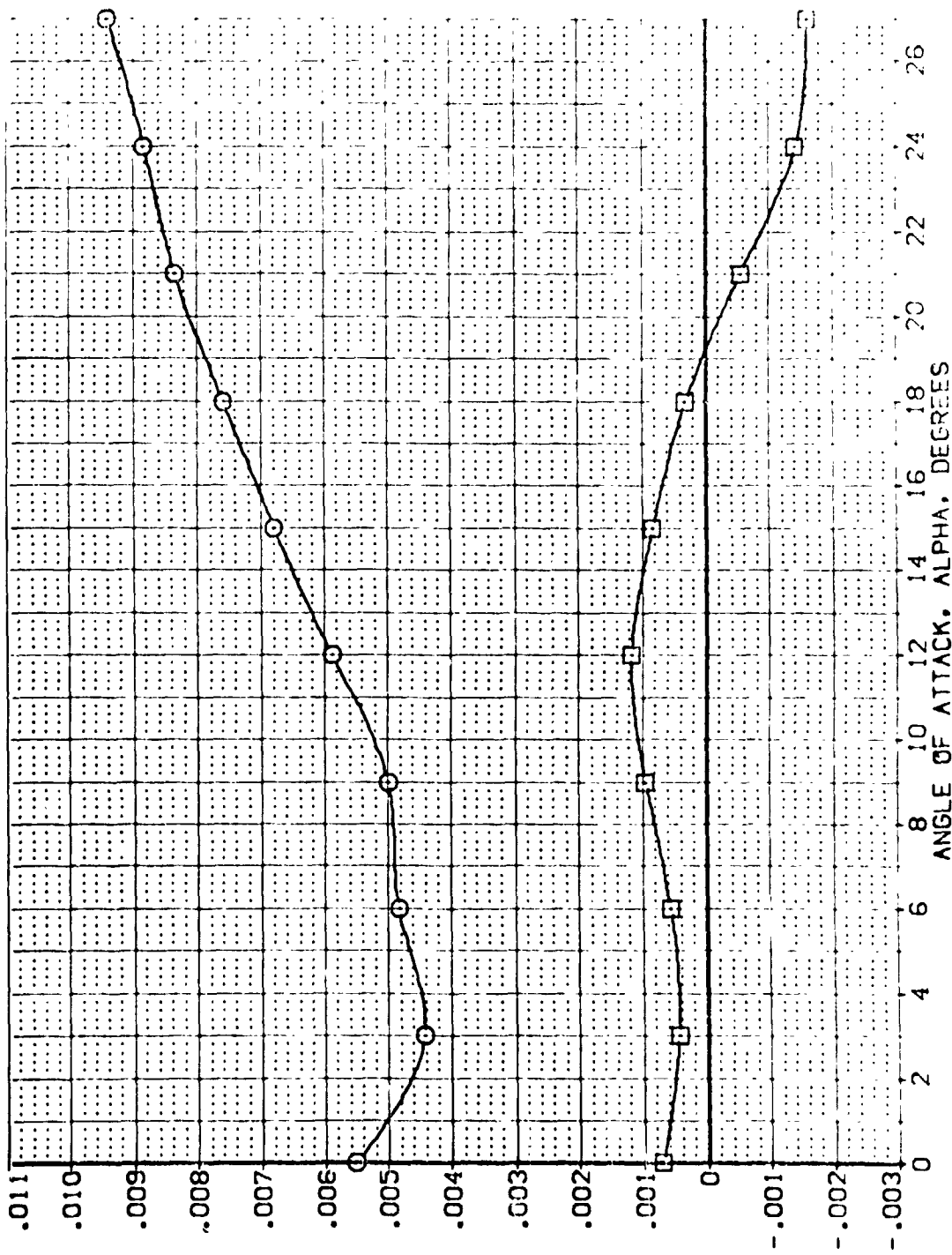


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	DBF	SPDRBK	REFERENCE INFORMATION
[VERG:10]	ARC 97-747 BA533 B C M F V1 V	.000	.000	16.300	55.000	SREF 2.4210 52.57.
[VERG:11]	ARC 97-747 BA533 B C M F V1 V	.000	.000	-11.700	55.000	LREF 14.2540 11.
						SREF 20.1000 11.
						XREF 22.0000 11.
						YREF 11.2500 11.
						ZREF 11.2500 11.
						SCALE .0000

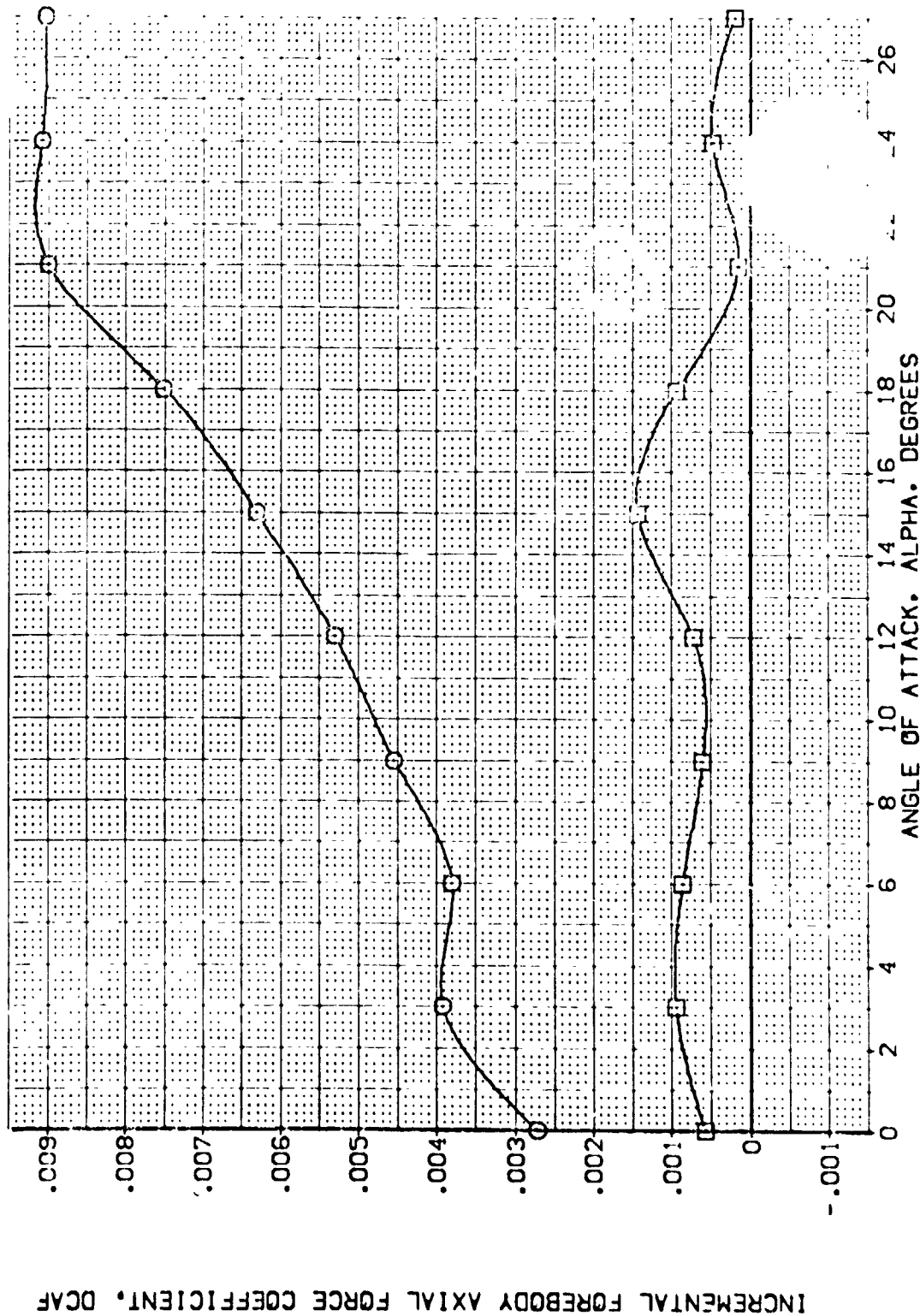


FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL: [VF010] [VF011] CONFIGURATION DESCRIPTION: ARC 97-747 QAS38 B C H F V1 V NDH: RNAL NDH: RNAL ELEVON: .000 .000 AILRON: .000 .000 DBF: 16.300 -11.700 SPO3RK: 55.000 55.000 REFERENCE INFORMATION: SREF: 2.4210 LREF: 14.2140 SCALP: 20.000 XREF: 32.000 YREF: 11.000 ZREF: 11.000 SCALE: 10.000

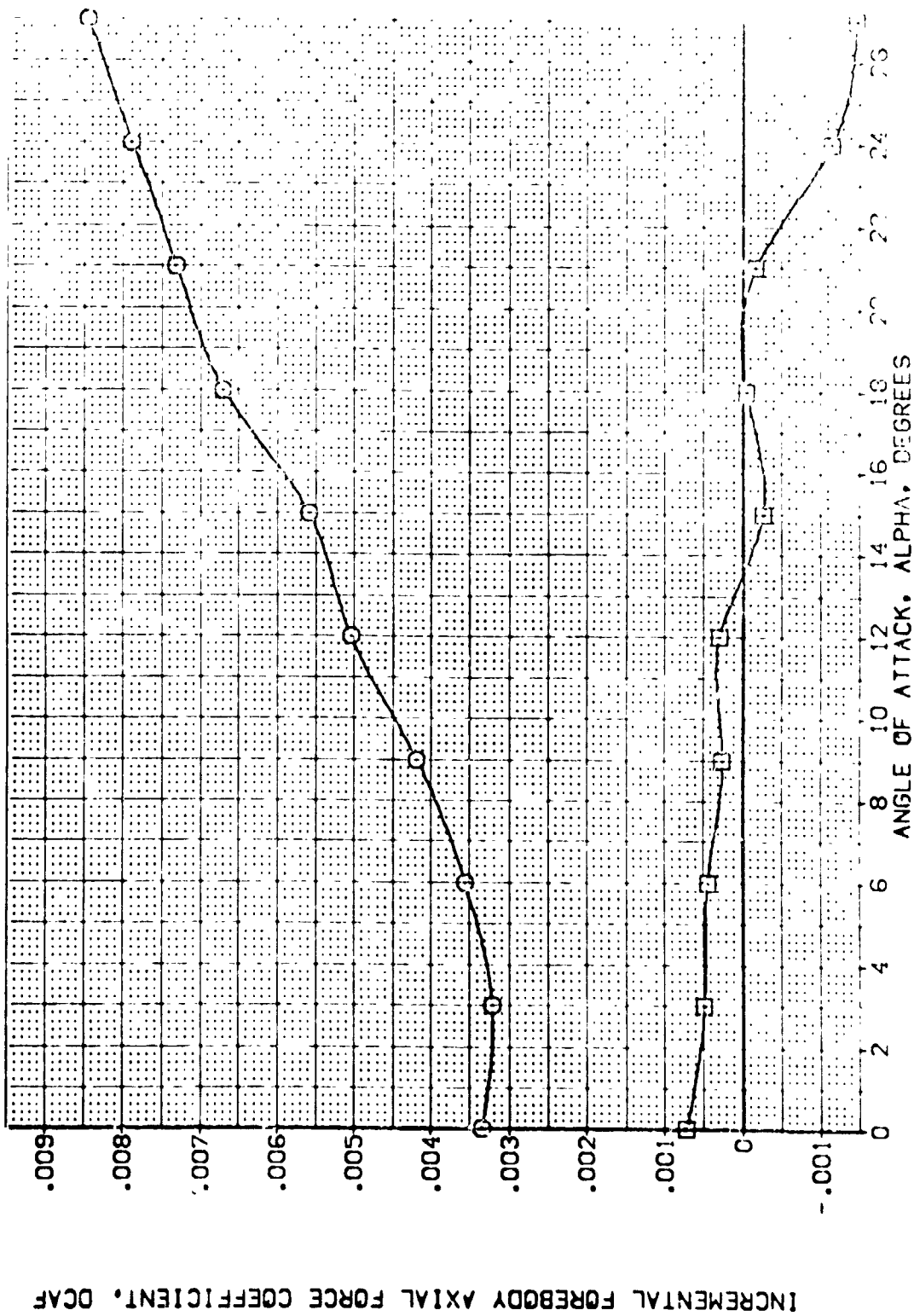


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AIRLIFT	DSF	SPEED	REFERENCE INFORMATION
[VEK010]	ARC 97-747 B C M F V I V	.000	.000	16.300	55.000	SPREF 2.4210 50. FT.
[VEK011]	ARC 97-747 B C M F V I V	.000	.000	-11.700	55.000	LPREF 14.2180 IN.
						SPREF 20.1001 IN.
						XPREF 32.0010 IN.
						YPREF 11.0000 IN.
						ZMPREF 11.0000 IN.
						SCALE .0000

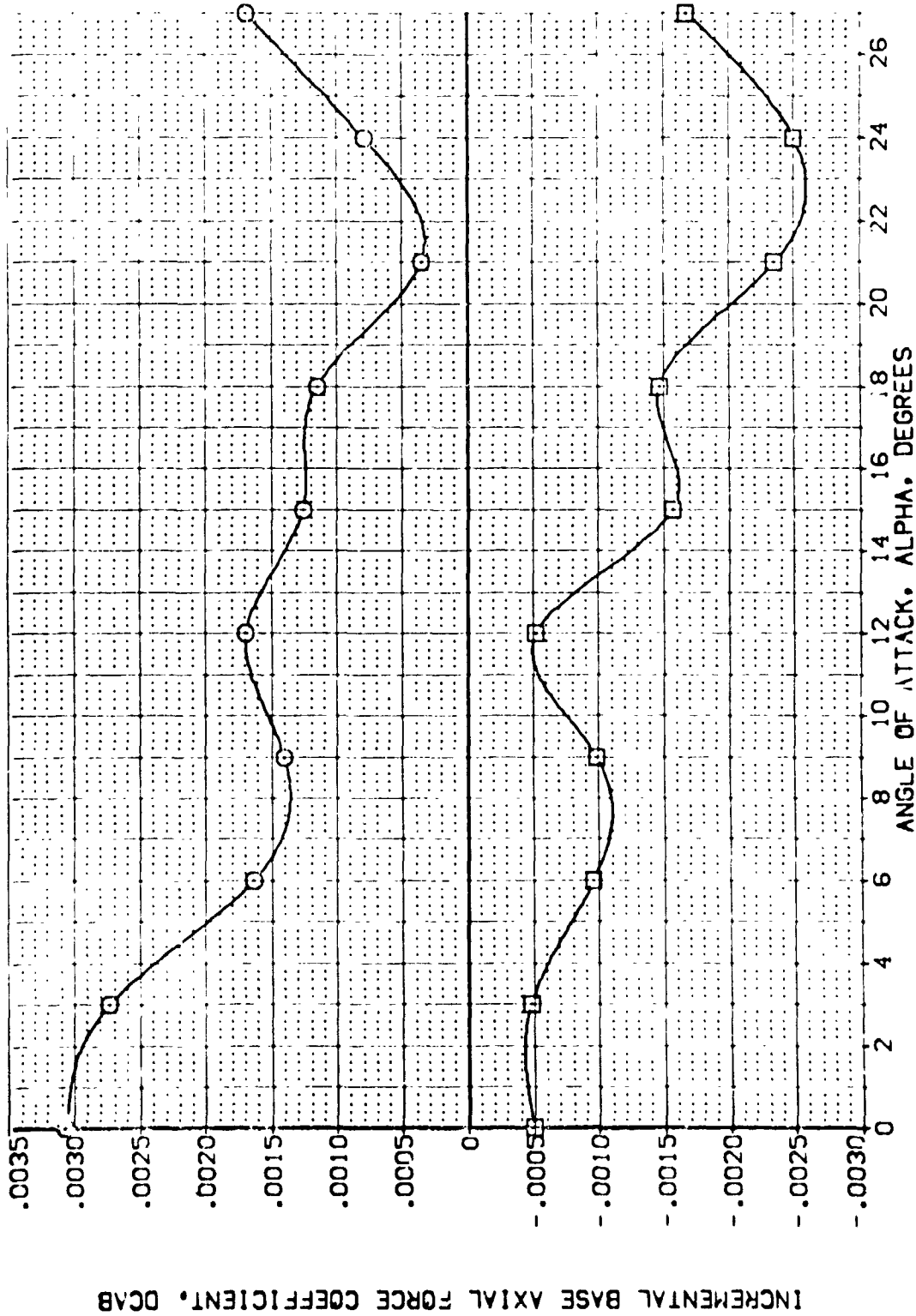


FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AILLON	DEF	SPEED	REFERENCE INFORMATION
[VE013]	ARC 97-747 BAS38 B C M F V1	.000	.000	16.300	55.000	2.4210
[VE011]	ARC 97-747 BAS38 B C M F V1	.000	.000	-11.700	55.000	14.2240
						23.1000
						32.1010
						11.2000
						10.0000
						SCALE

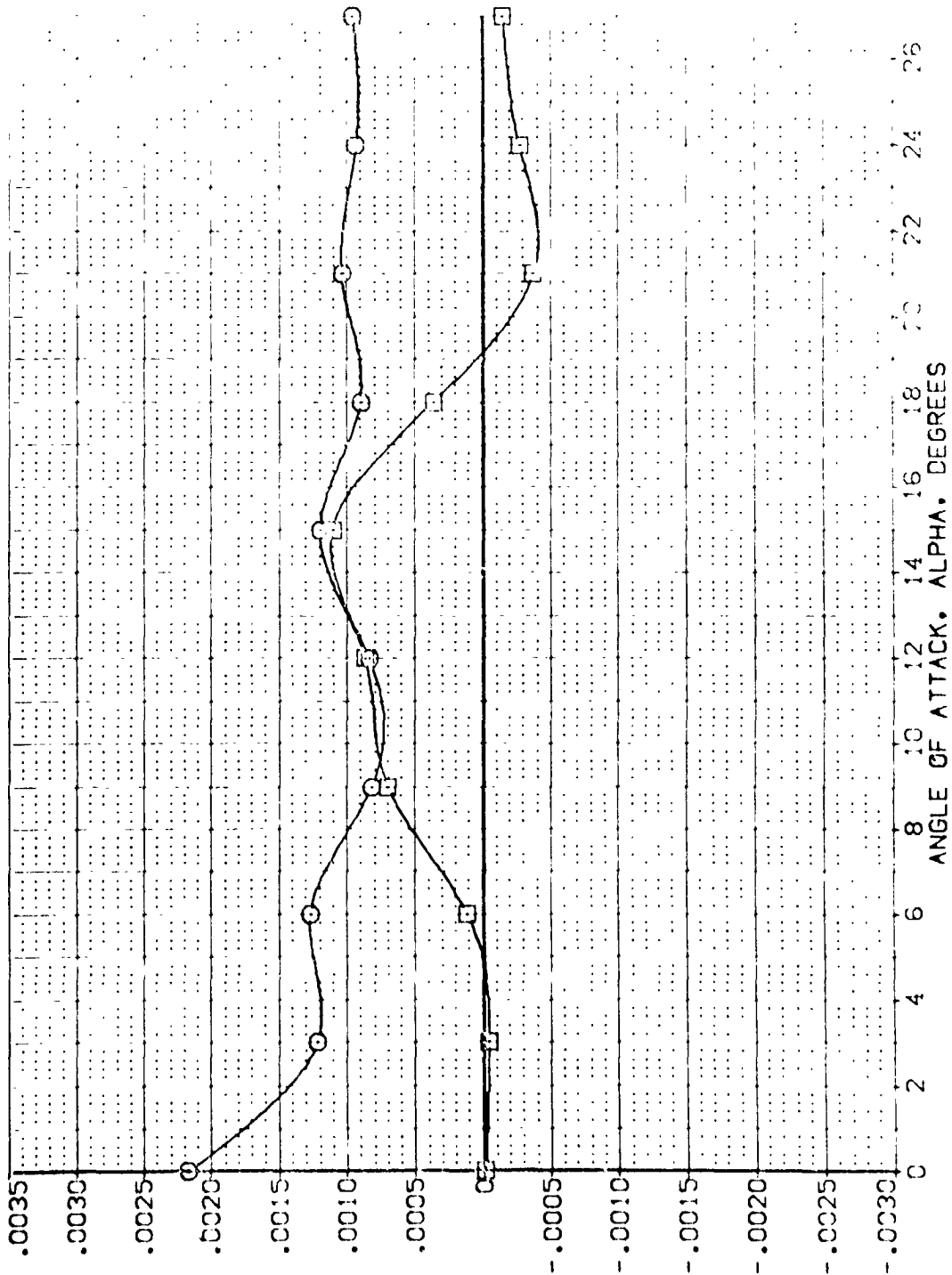


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AIRLIFT	DEF	SPEED	REFERENCE INFORMATION
(V1010)	ARC 97-747 B C M F V1	.000	.000	16.300	55.000	SREF 2.4210 SC.FT.
(V1011)	ARC 97-747 B C M F V1	.000	.000	-11.700	55.000	LREF 14.2440 IN.
						BREF 28.1000 IN.
						XVAP 32.3010 IN.
						YVAP .0000 IN.
						ZVAP 11.7000 IN.
						SCALE .0000

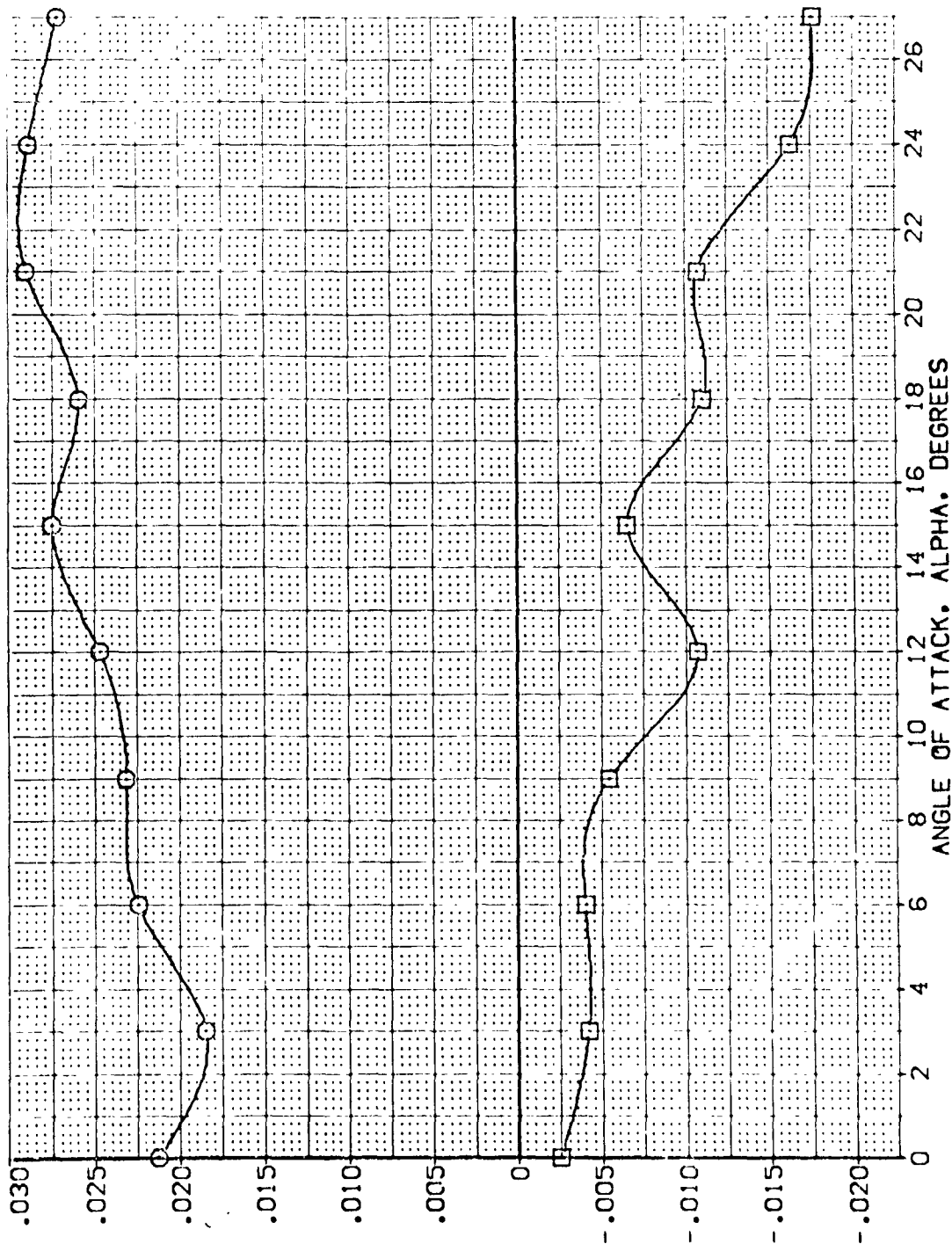


FIG. 8 BODYFLAP EFFECTS

157

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	ATTITUDE	DEF	SPEED	REFERENCE INFORMATION
{VEK010}	ARC 97-747 DAS38 B C M F V1 V	.000	.000	16.300	55.000	SPEED 2.4210 SC.FT.
{VEK011}	ARC 97-747 DAS38 B C M F V1 V	.000	.000	-11.700	55.000	LREF 14.2440
						BREF 28.1004
						XREF 32.3310
						YREF 00.0000
						ZREF 11.2000
						SCALE .0000

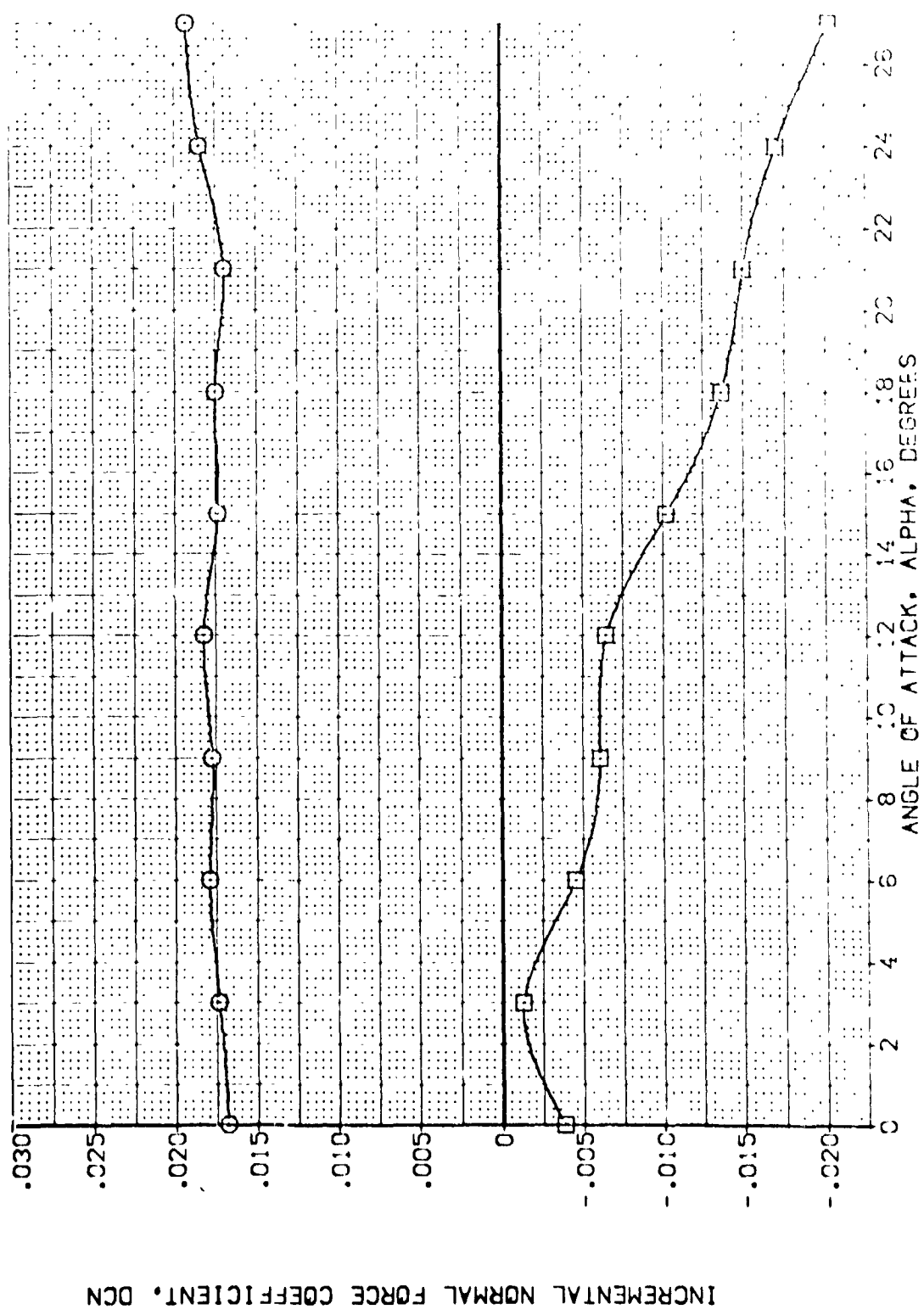
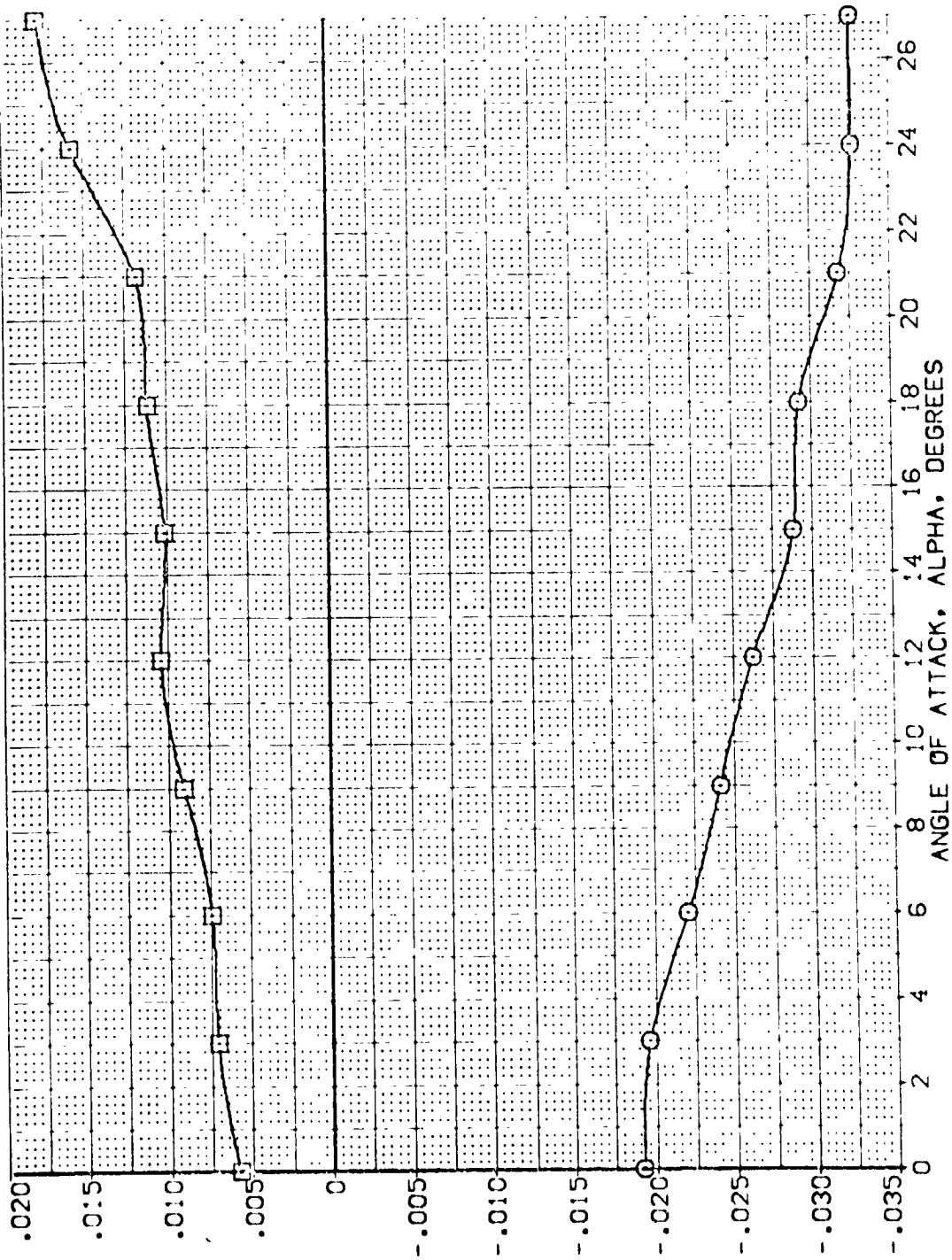


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL:
 (VELOCITY)
 (PERCENT)
 CONFIGURATION DESCRIPTION:
 ARC 97-747 CAS38 B C M F V:
 ARC 97-747 CAS38 B C M F V:
 ELEVON: .000
 AILERON: .000
 DBF: 16.300
 SPOBRK: 55.000
 REFERENCE INFORMATION:
 SREF: 2.4210
 LREF: 14.2440
 EREF: 20.1000
 XMP: 32.0010
 YMP: .0000
 ZMP: 11.2000
 SCALE: .0300
 SCALE: .0300



INCREMENTAL PITCHING MOMENT COEFFICIENT (FWD C.G.), DCMFWD

FIG. 8 BODYFLAP EFFECTS

(M)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	DBF	SPDRK	REFERENCE INFORMATION
[VEK010]	ARC 97-747 BAS38 B C M F VI V NOM. RVUL	.000	.000	16.300	55.000	SREF 2.4210 SC.FT.
[VEK011]	ARC 97-747 BAS38 B C M F VI V NOM. RVUL	.000	.000	-11.700	55.000	LREF 14.2440 IN.
						BREF 20.1004 IN.
						XMTP 32.2010 IN.
						YMTP 0.0000 IN.
						ZMTP 11.2500 IN.
						SCALE .0000

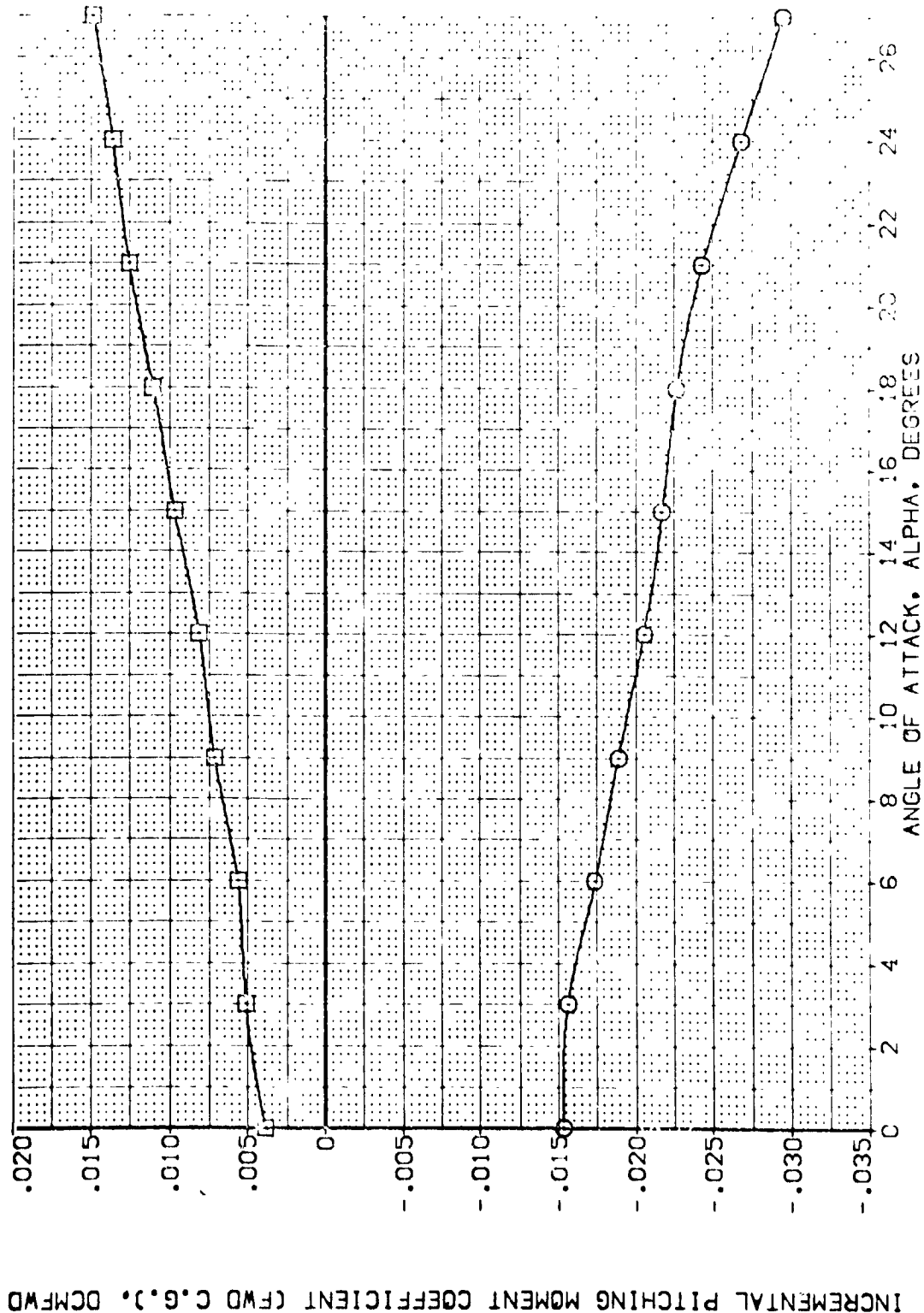


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	DBF	SPOBRK	REFERENCE INFORMATION
(VEKD:10)	ARC 97-747 B C M F V: V NOM. RV/L	.000	.000	16.300	55.000	SREF 2.4210 50. FT.
(VEKD:11)	ARC 97-747 B C M F V: V NOM. RV/L	.000	.000	-11.700	55.000	LREF 14.2440 IN.
						BREF 20.1004 IN.
						YREF 30.5010 IN.
						ZREF 0.0000 IN.
						SCALE 11.2500
						SCALE .0300

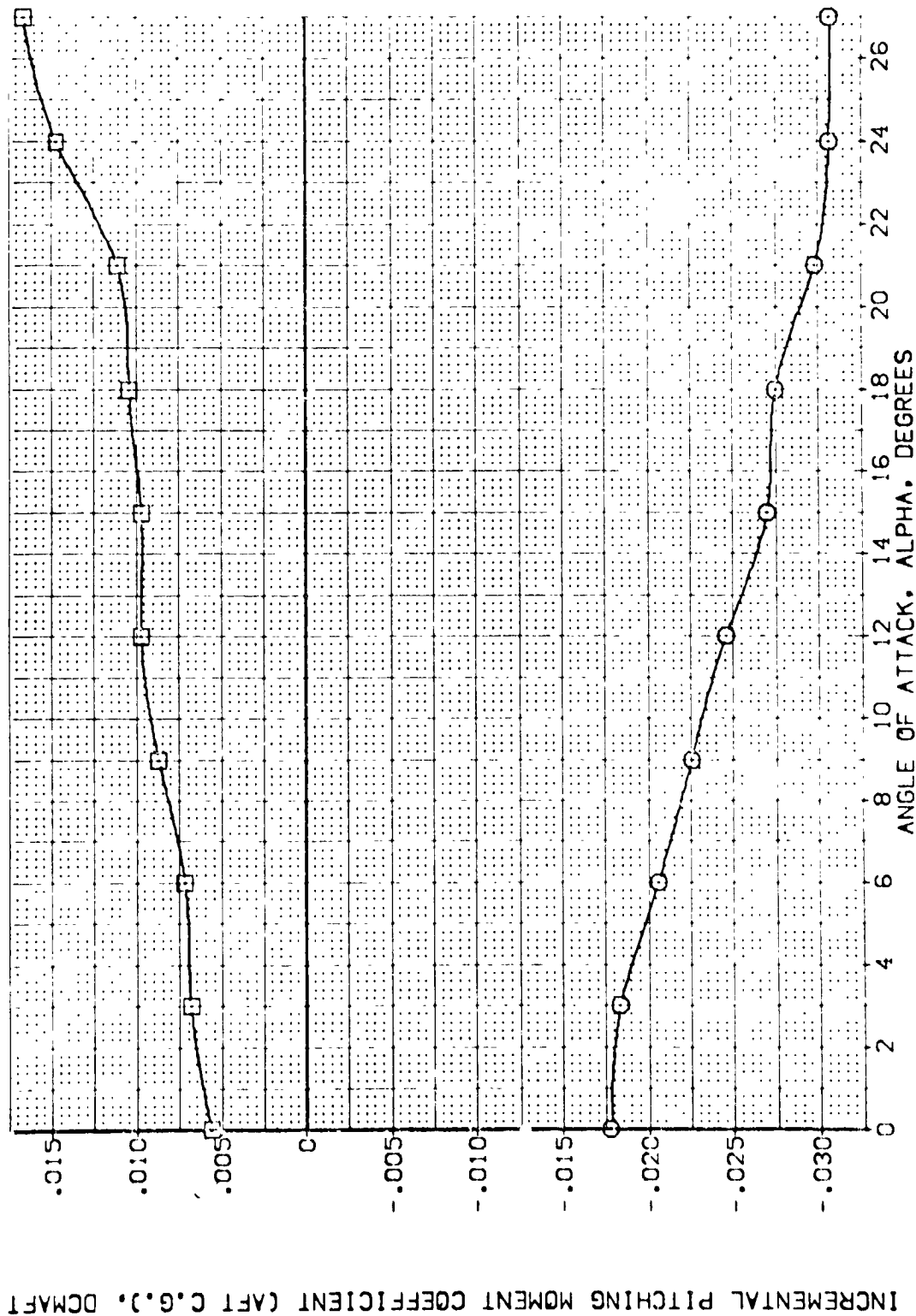
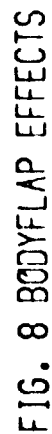


FIG. 8 BODYFLAP EFFECTS

(M)MAC = 1.60

INCREMENTAL PITCHING MOMENT COEFFICIENT (AFT C.G.), DCMAPT



(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPEEDBRK	REFERENCE INFORMATION			
(TEMP024)	ABC 97-747 24533 B C M F V: V NOM. RWL	.000	.000	-11.700	25.000	SPEED	2.4210	52. FT.	
(TEMP011)	ABC 97-747 24533 B C M F V: V NOM. RWL	.000	.000	-11.700	55.000	LEEF	14.2440		
(TEMP038)	ABC 97-747 24533 B C M F V: V NOM. RWL	.000	.000	-11.700	65.000	SPFF	20.1001		
						ANOS	32.2210		
						YVNO	11.2200		
						SCALE	11.2200		SCALE

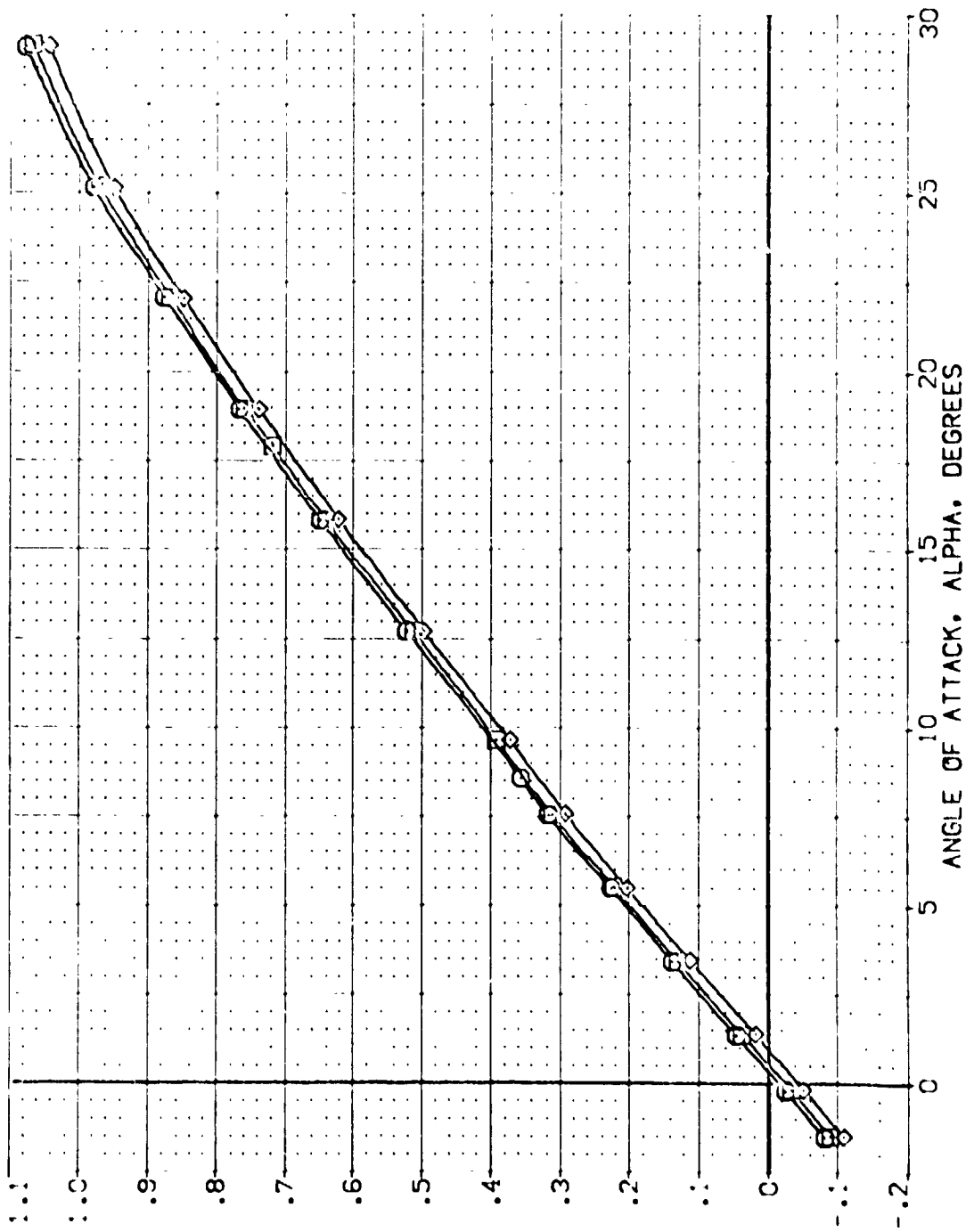


FIG. 9 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOILER	REFERENCE INFORMATION
[TEPD24]	ARC 97-747 BAS38 B C H F VI V	.000	.000	-11.700	25.000	SREF 2.4210 SQ.FT.
[TEPD11]	ARC 97-747 BAS38 B C H F VI V	.000	.000	-11.700	55.000	LREF 14.2440
[TEPD38]	ARC 97-747 BAS38 B C H F VI V	.000	.000	-11.700	85.000	BREF 23.1004
						XMRP .0000
						YMRP .0000
						ZMRP .0000
						SCALE 11.2500

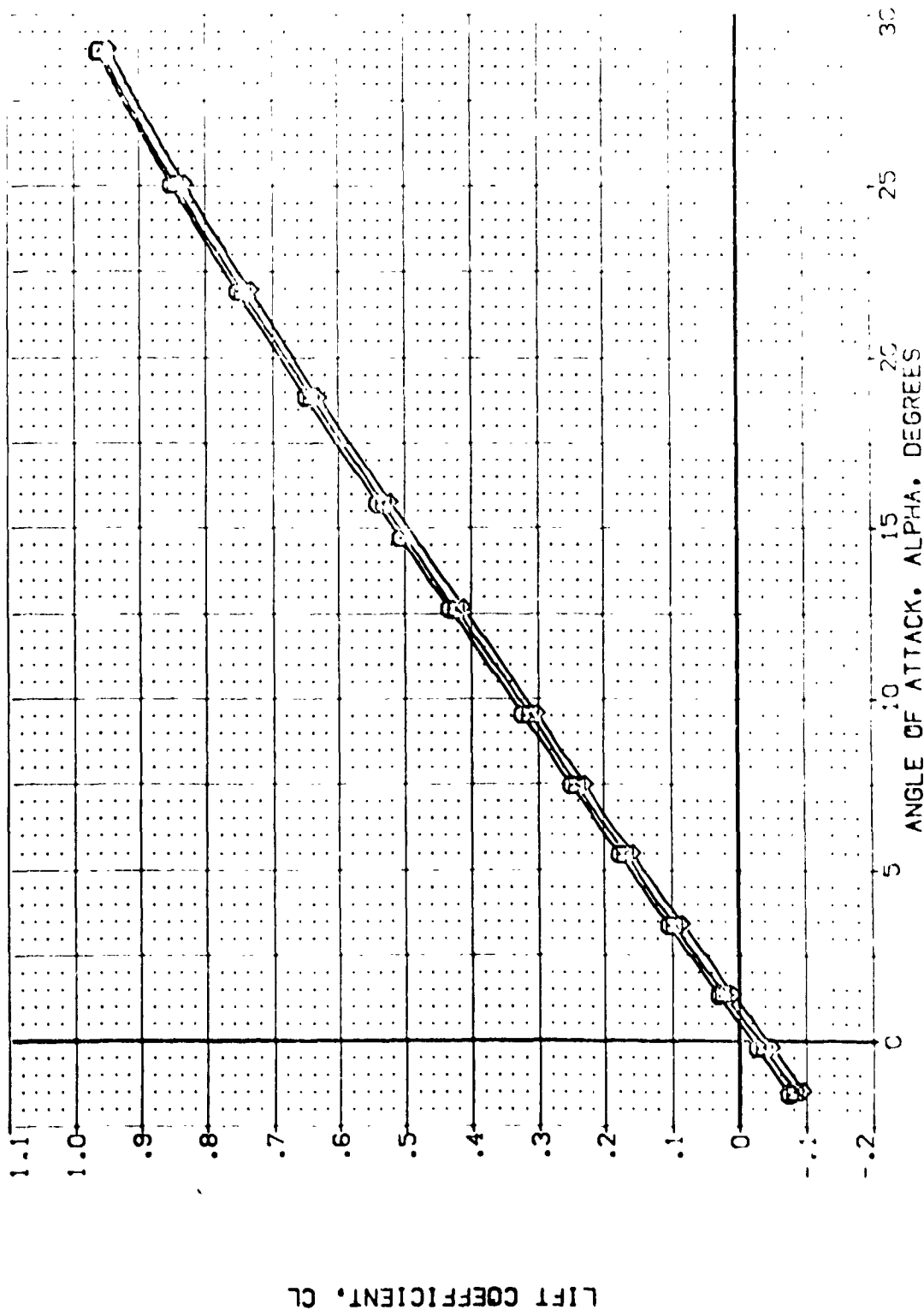


FIG. 9 SPEEDBRAKE EFFECTS

[B]MACH = 2.00

DATA SET SYMBOL	C-FIGURATION DESCRIPTION	ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEK024)	ARC 97-747 CAS20 B C M F VI V	.000	.000	-11.700	25.000	STREF 2.4210
(TEK011)	ARC 97-747 CAS20 B C M F VI V	.000	.000	-11.700	55.000	LRREF 14.2440
(TEK038)	ARC 97-747 CAS20 B C M F VI V	.000	.000	-11.700	85.000	DRREF 23.1000
						YMRP 32.5000
						ZMRP 11.2000
						SCALE .0000

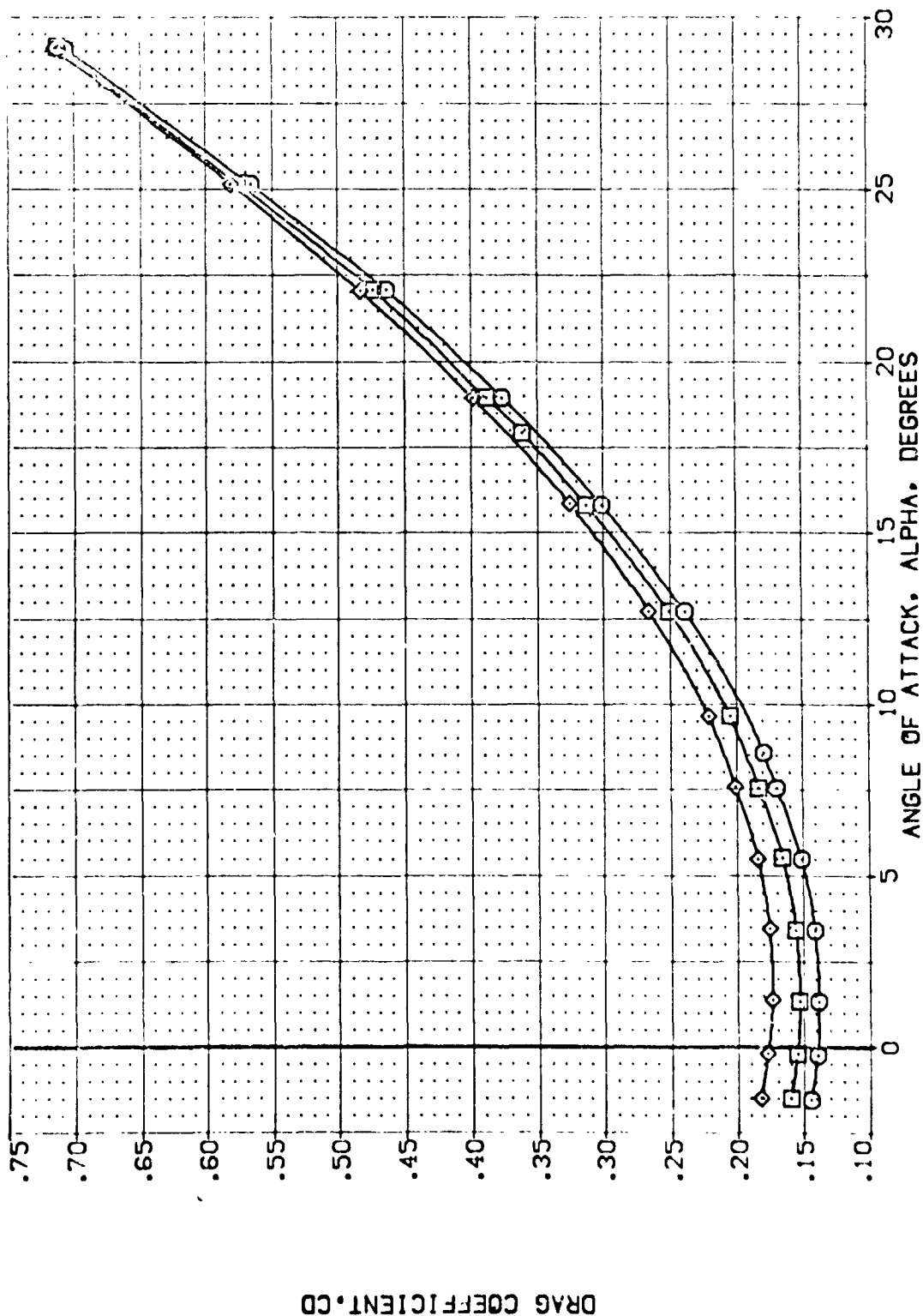


FIG. 9 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AIRLIFT	BOFLAP	SPEED	REFERENCE INFORMATION
(TEND24)	ARC 97-747 DAS38 B C H F VI V	.000	.000	-11.700	25.000	SREF 2.4210
(TEND11)	ARC 97-747 DAS38 B C H F VI V	.000	.000	-11.700	55.000	UREF 14.2140
(TEND38)	ARC 97-747 DAS38 B C H F VI V	.000	.000	-11.700	85.000	UREF 28.1004
						YMRP 32.0010
						ZMRP .0000
						SCALE 11.2000
						SCALE .0300

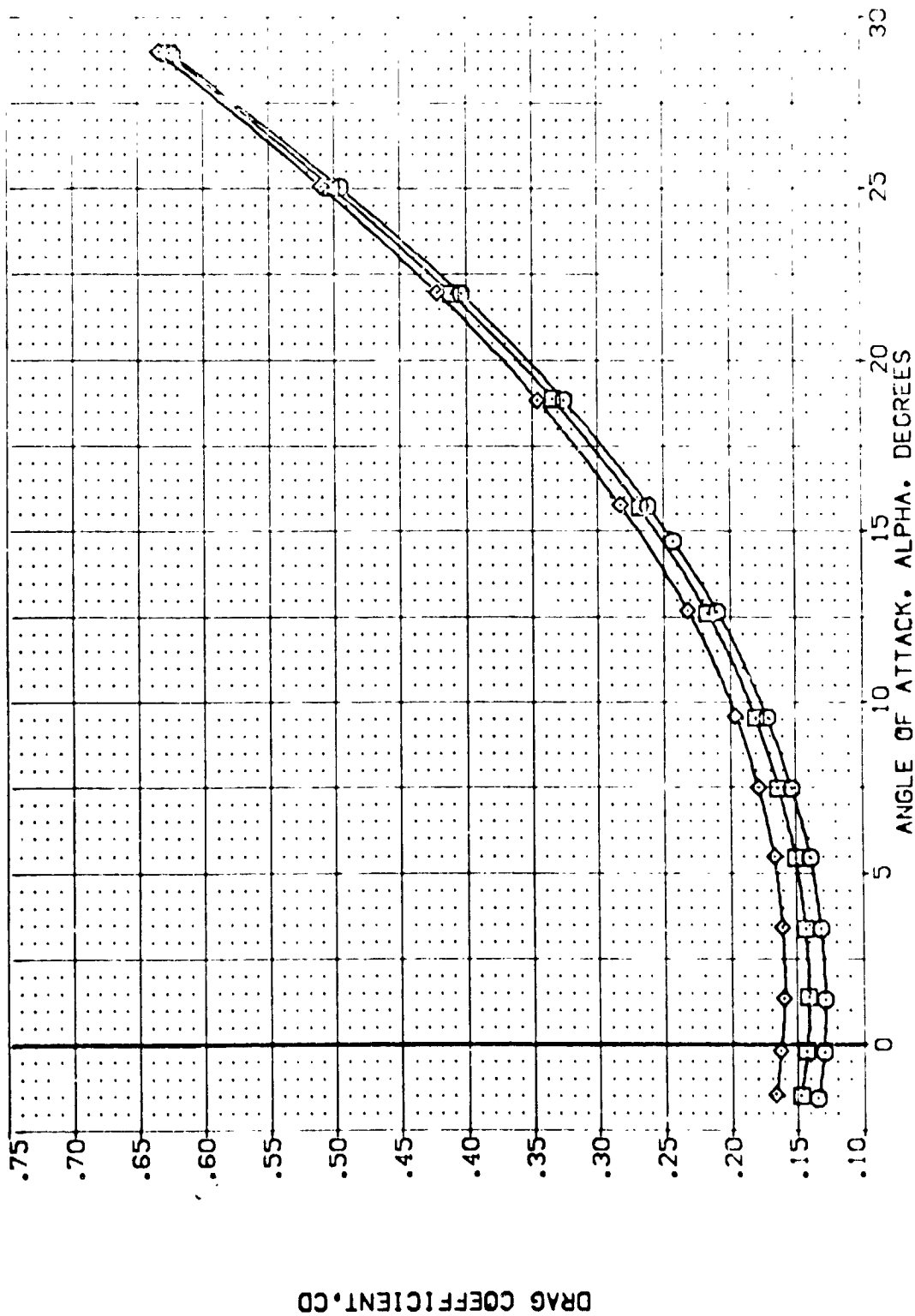


FIG. 9 SPEEDBRAKE EFFECTS

(B)MACH = 2.00

FOREBODY DRAG COEFFICIENT, CDF

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AILLON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEP024)	ARC 97-747 BA539 B C M F V1 V	.000	.000	-11.700	75.000	SREF 2.4210 SQ.FT.
(TEP031)	ARC 97-747 BA539 B C M F V1 V	.000	.000	-11.700	55.000	LREF 14.2440 IN.
(TEP038)	ARC 97-747 BA539 B C M F V1 V	.000	.000	-11.700	65.000	BREF 28.1004 IN.
						XMREF 32.2010 IN.
						YMREF 0.0000 IN.
						ZMREF 11.2500 IN.
						SCALE .0000

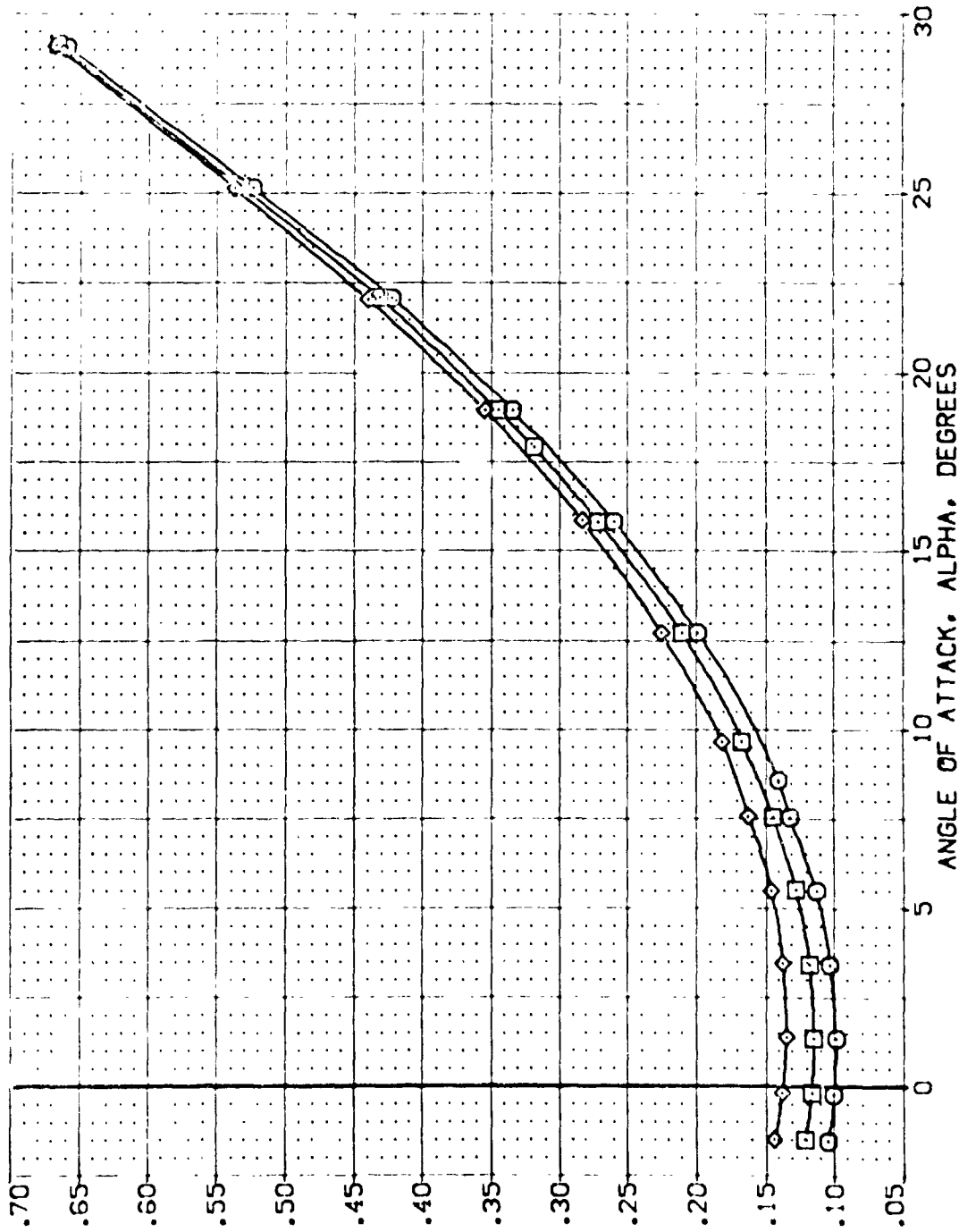


FIG. 9 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEK024)	ARC 97-747 DAS38 B C M F VI V	.000	.000	-11.700	25.000	SREF 2.4210
(TEK011)	ARC 97-747 DAS38 B C M F VI V	.000	.000	-11.700	55.000	LREF 14.2440
(TEK038)	ARC 97-747 DAS38 B C M F VI V	.000	.000	-11.700	85.000	BREF 20.1004
						XREF 32.0010
						YREF 0.0000
						ZREF 11.2500
						SCALE 0.0000

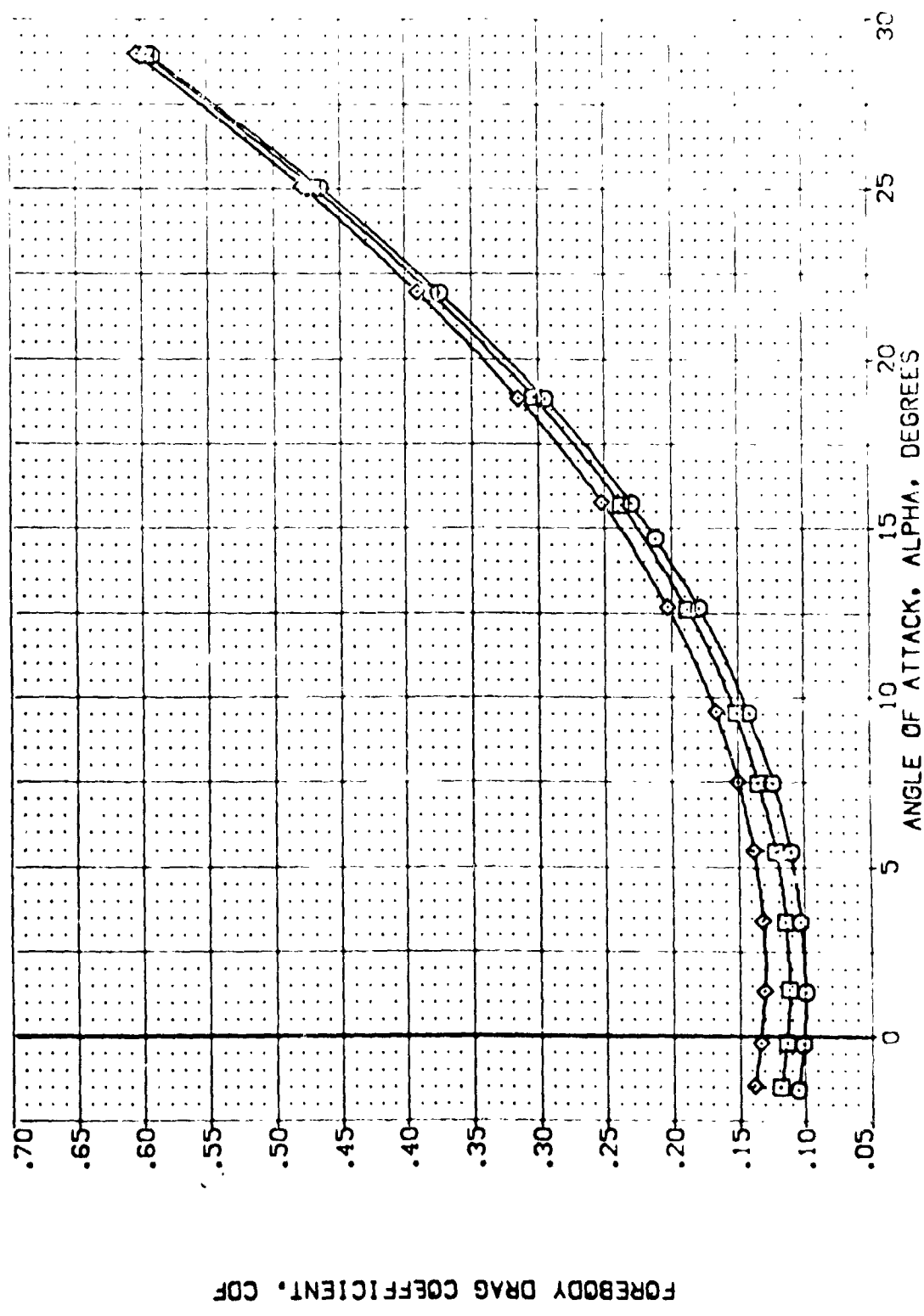


FIG. 9 SPEEDBRAKE EFFECTS

(B)MACH = 2.00

AXIAL FORCE COEFFICIENT, CA

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TENG24)	ARC 97-747 D4533 B C M F V1	.000	.000	-11.700	25.000	SREF 2.4210 SQ.FT.
(TENG11)	ARC 97-747 D4533 B C M F V1	.000	.000	-11.700	55.000	LREF 14.2440 IN.
(TENG00)	ARC 97-747 D4533 B C M F V1	.000	.000	-11.700	86.000	BREF 20.1004 IN.
						XREF 32.3010 IN.
						YREF 11.2500 IN.
						ZREF 11.2500 IN.
						SCALE .0000

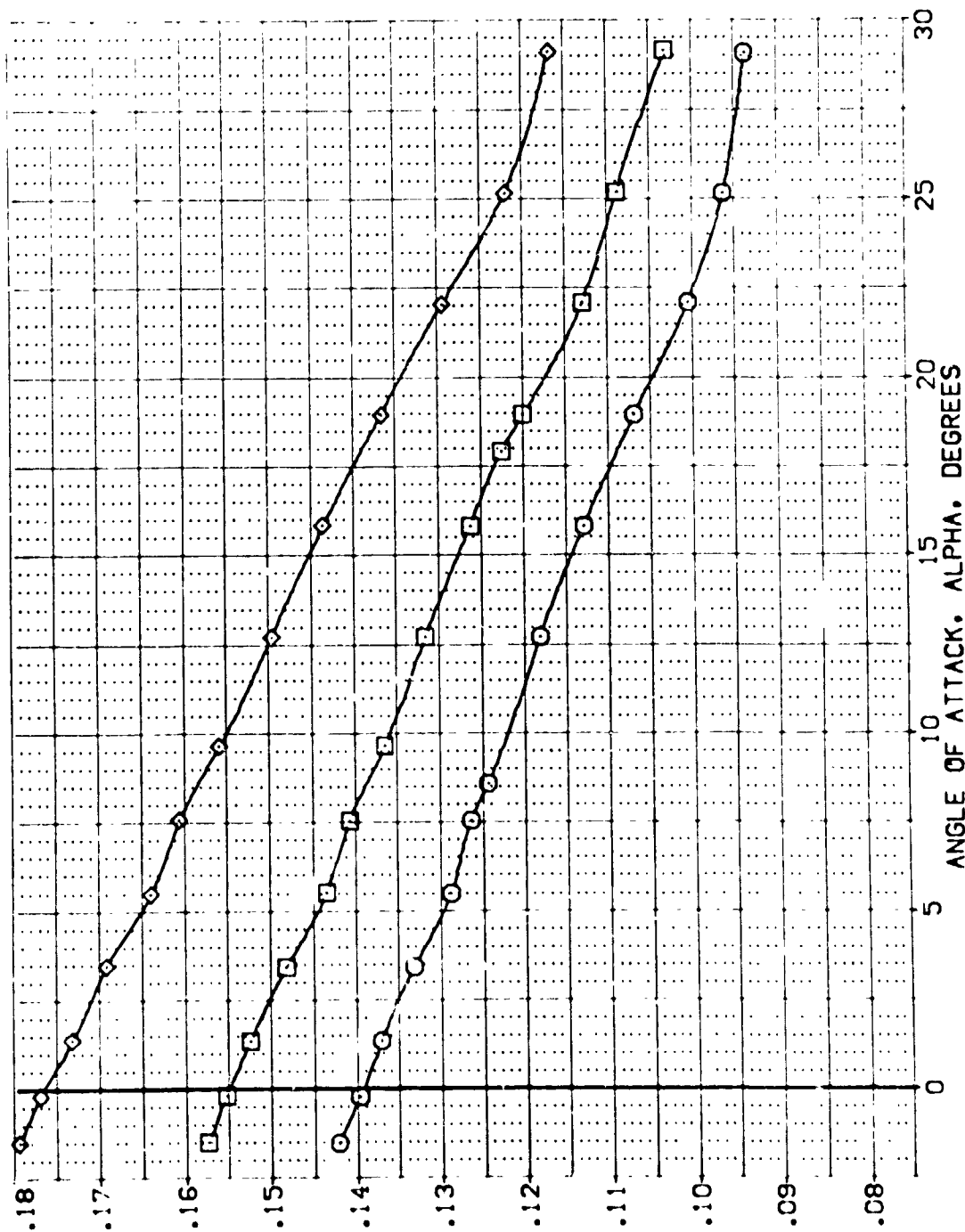


FIG. 9 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

AXIAL FORCE COEFFICIENT, CA

DATA SET SYMBOL	CONF IGURATION DESCRIPTION	ELEVON	AILERON	BD/LAP	SPODBRK	REFERENCE INFORMATION
(TEKD24)	ARC 97-747 D4538 B C M F V1 V	.000	.000	-11.700	25.000	SREF 2.4210 SQ.FT.
(TEKD11)	ARC 97-747 D4538 B C M F V1 V	.000	.000	-11.700	55.000	LREF 14.2440 IN.
(TEKD38)	ARC 97-747 D4538 B C M F V1 V	.000	.000	-11.700	85.000	L-REF 28.1004 IN.
						XMRP 32.5010 IN.
						YMRP .0500 IN.
						ZMRP 11.2500 IN.
						SCALE .0000

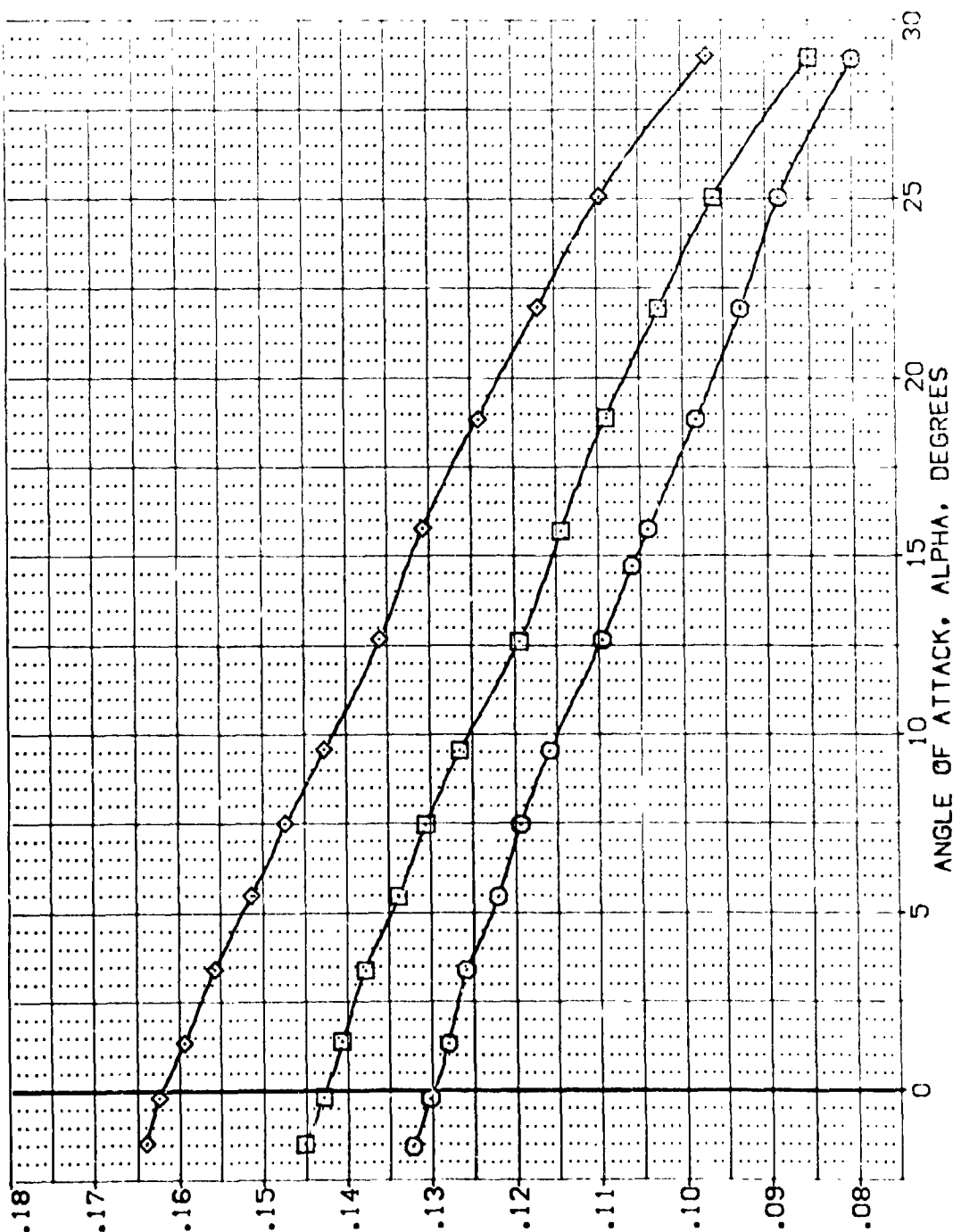


FIG. 9 SPEEDBRAKE EFFECTS
(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPODBRK	REFERENCE INFORMATION
Q	ARC 97-747 DA538 B C M F V1 V	.000	.000	-11.700	25.000	SREF 2.4210 SQ.FT.
Q	ARC 97-747 DA538 B C M F V1 V	.000	.000	-11.700	55.000	LREF 14.2400 IN.
Q	ARC 97-747 DA538 B C M F V1 V	.000	.000	-11.700	65.000	BREF 20.1004 IN.
						XREF 32.5010 IN.
						YREF 11.7500 IN.
						ZREF 11.7500 IN.
						SCALE .0300 SCALE

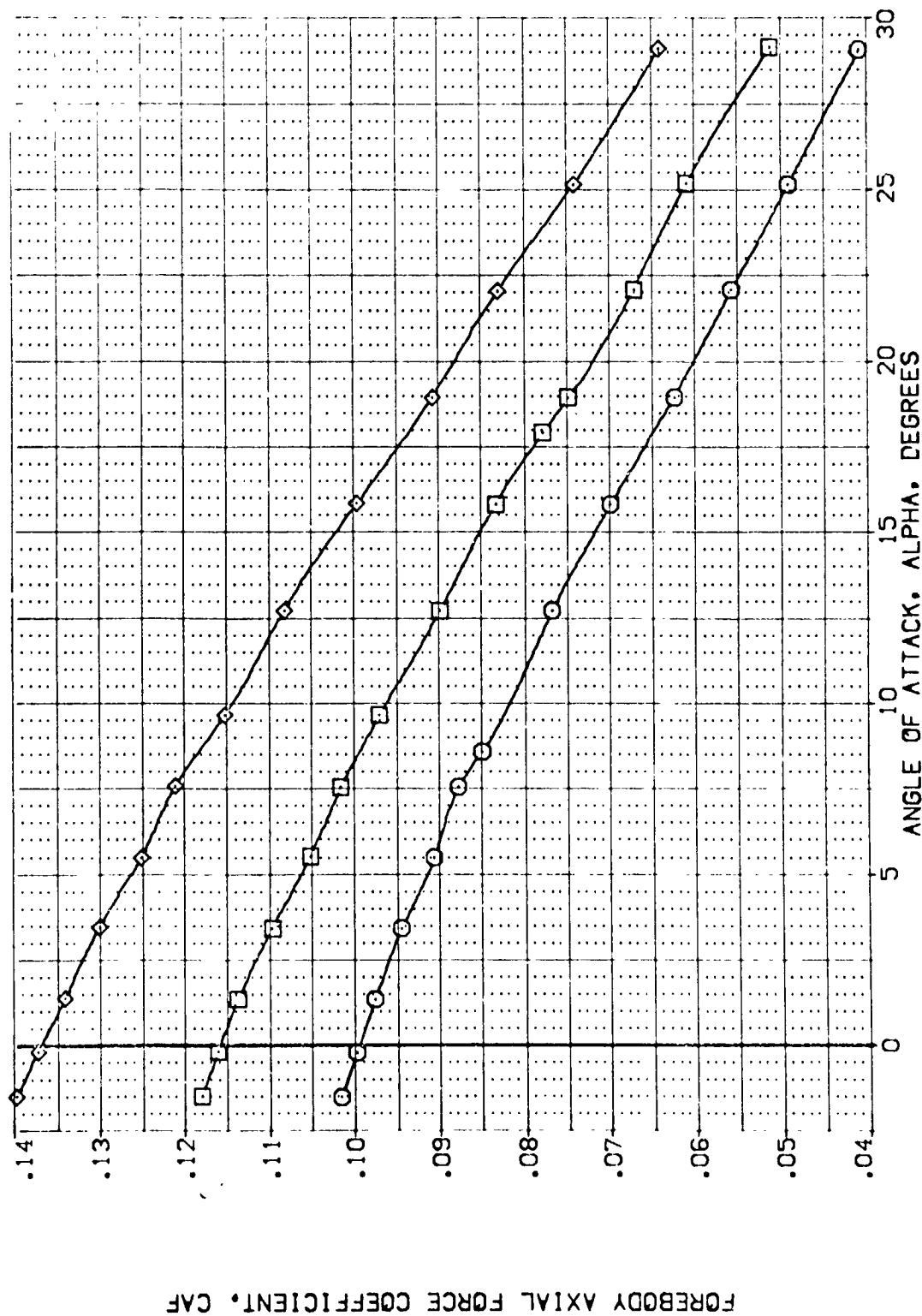


FIG. 9 SPEEDBRAKE EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AIRLIFT	80% LIFT	SPEED	REFERENCE INFORMATION
[TEP024]	ARC 97-747 BA538 B C M F V	.000	.000	11.700	25.000	2.4210
[TEP011]	ARC 97-747 BA538 B C M F V	.000	.000	11.700	55.000	14.2400
[TEP036]	ARC 97-747 BA538 B C M F V	.000	.000	11.700	85.000	30.1500
						30.1500
						11.7000
						11.7000
						SCALE

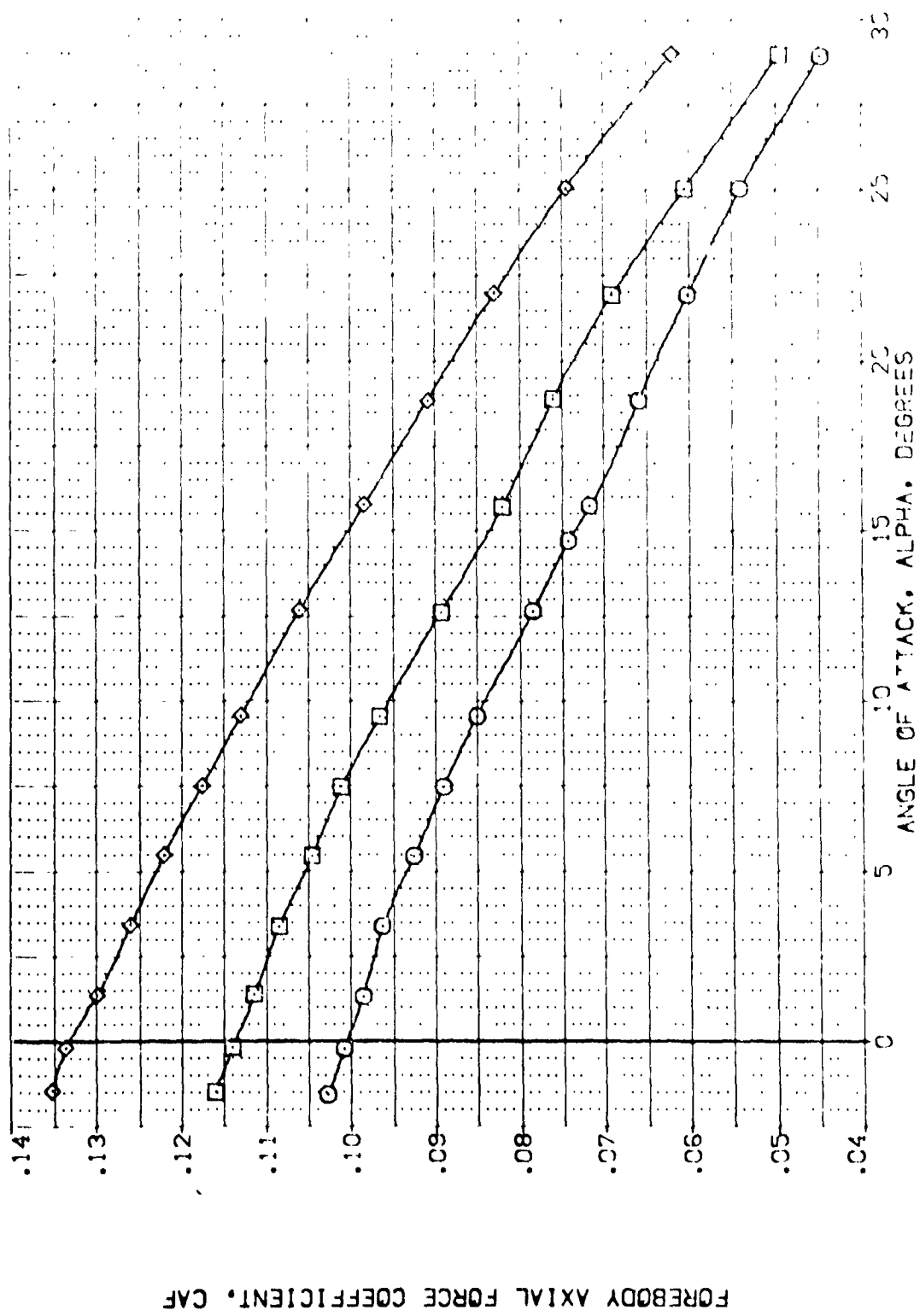


FIG. 9 SPEEDBRAKE EFFECTS

(B)MAC = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		AILERON		BOLAP		SUBBRK		REFERENCE INFORMATION		
[TE024]	Q	ARC 97-747	04538 B C M F V	V	NOM	RVL						SREF	2.4210	SC.F.T.
[TE021]		ARC 97-747	04538 B C M F V	V	NOM	RVL	.000	.000	-11.700	25.000		REF	14.2440	
[TE038]	Q	ARC 97-747	04538 B C M F V	V	NOM	RVL	.000	.000	-11.700	55.000		REF	20.0001	
										80.000		REF	32.0000	
												REF	0.0000	
												REF	11.2000	SCALE
												REF	0.0000	

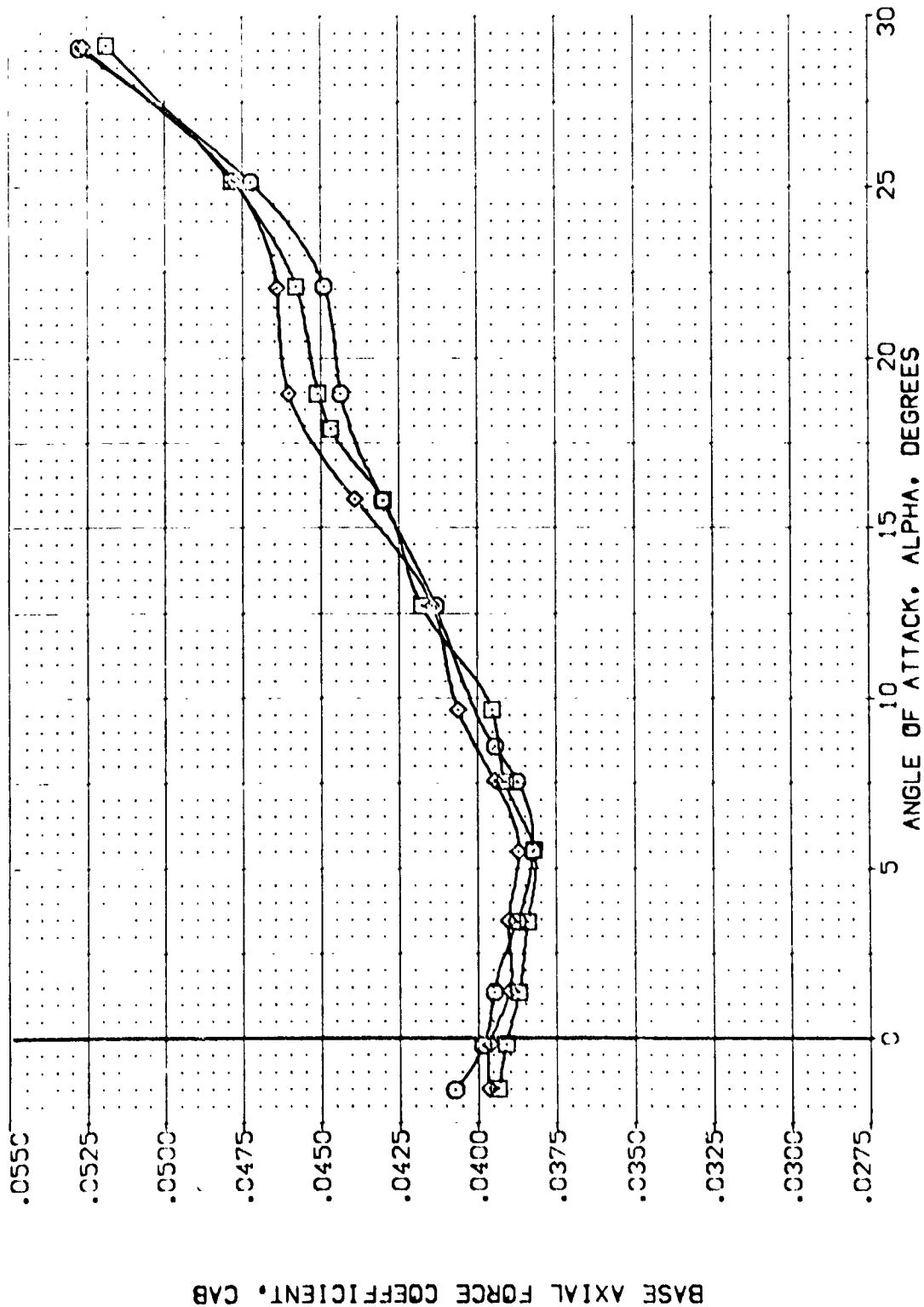


FIG. 9 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPODBRK	REFERENCE INFORMATION
(TEK024)	ARC 97-747 CAS38 B C M F VI V	.000	.000	-11.700	75.000	SREF 2.4210 SQ.FT.
(TEK011)	ARC 97-747 CAS38 B C M F VI V	.000	.000	-11.700	55.000	LREF 14.2440 IN.
(TEK038)	ARC 97-747 CAS38 B C M F VI V	.000	.000	-11.700	85.000	EREF 28.1004 IN.
						XMRP 32.5010 IN.
						YMRP .0000 IN.
						ZMRP 11.2500 IN.
						SCALE .0000

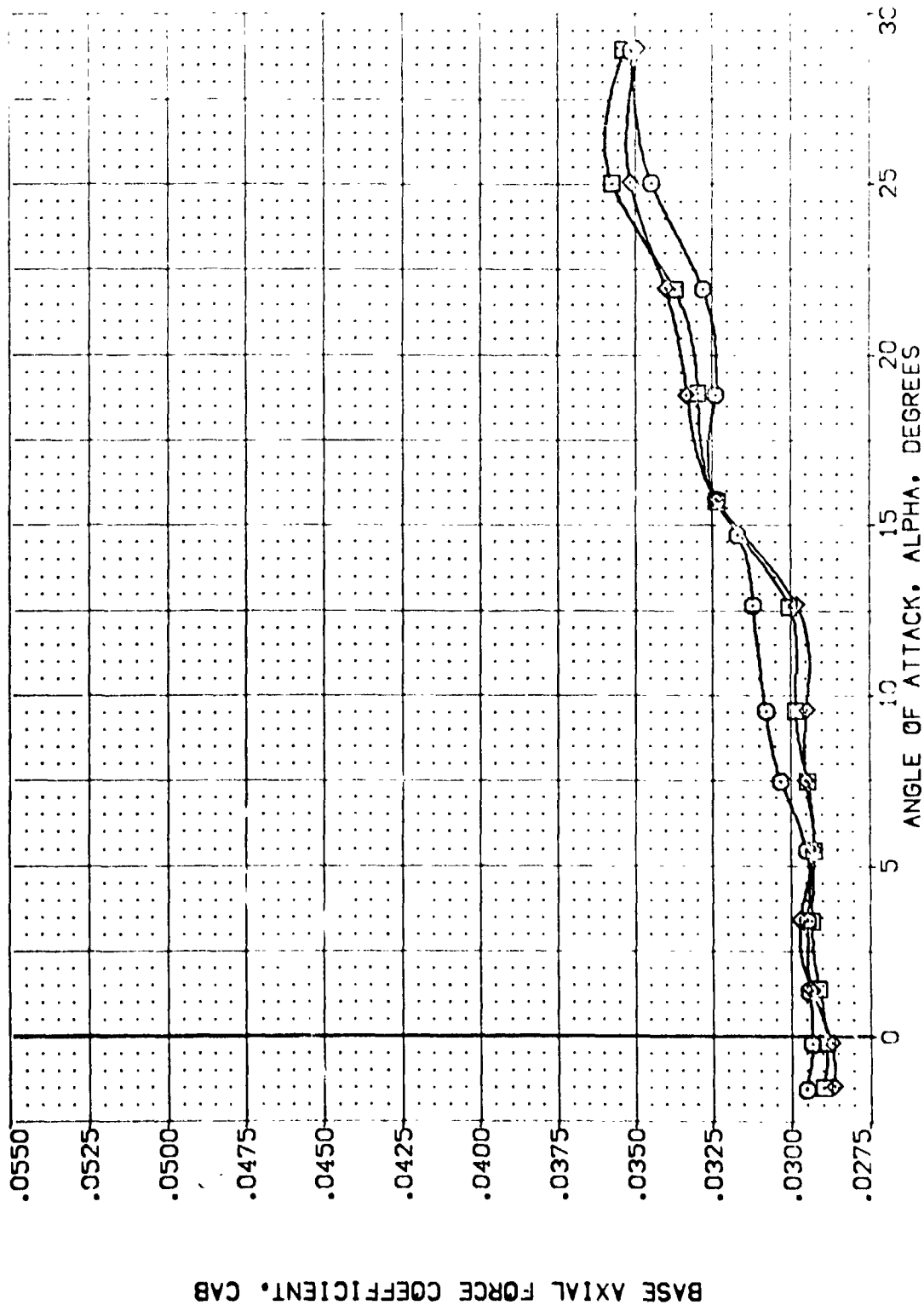
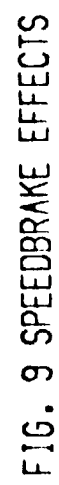


FIG. 9 SPEEDBRAKE EFFECTS

(B)MACH = 2.00



PAGE 175

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPODBRK	REFERENCE INFORMATION
[TEND24]	ARC 97-747 DA538 B C M F V1 V	.000	.000	-11.700	25.000	SREF 2.4210 SQ.FT.
[TEND11]	ARC 97-747 DA538 B C M F V1 V	.000	.000	-11.700	55.000	LREF 14.2420
[TEND38]	ARC 97-747 DA538 B C M F V1 V	.000	.000	-11.700	63.000	BREF 20.1124
						XM70 32.3016
						YM70 0.000
						ZM70 0.000
						SCALE 11.0000

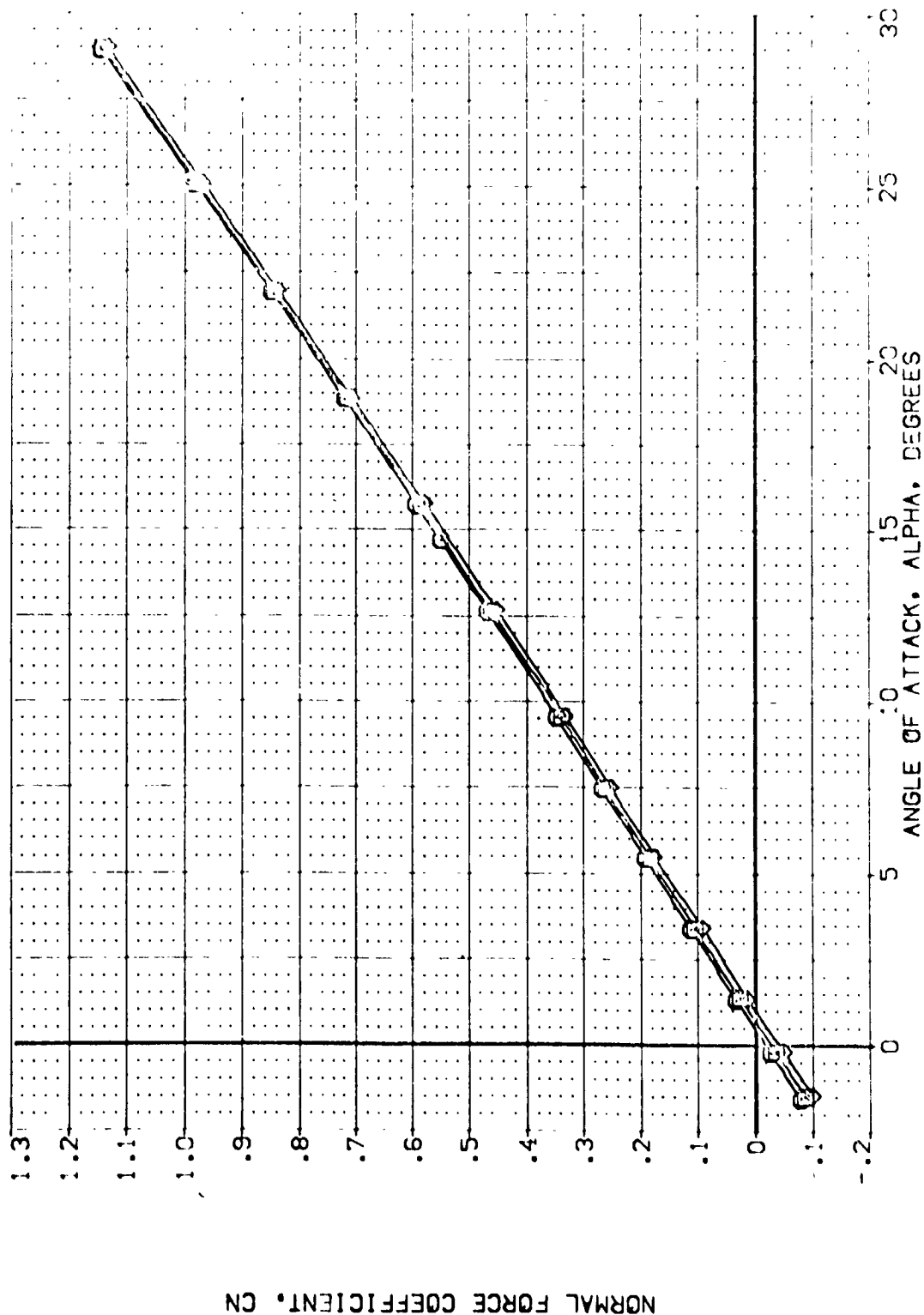
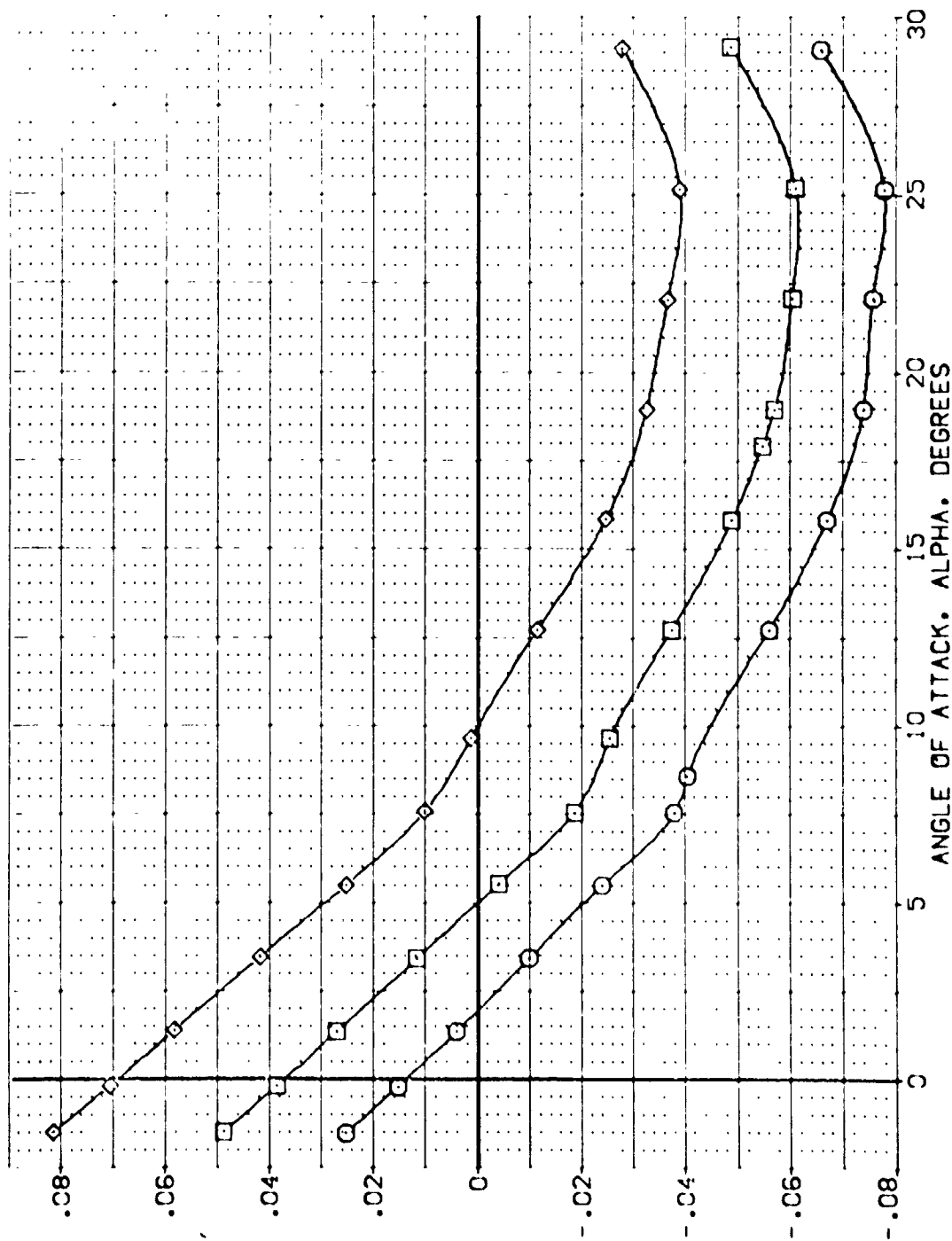


FIG. 9 SPEEDBRAKE EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPEEDBRK	REFERENCE INFORMATION
(TEMP24)	ARC 97-747 CAS23 B C M F VI V	.000	.000	-11.700	25.000	SREF 2.4210 SQ.FT.
(TEMP25)	ARC 97-747 CAS23 B C M F VI V	.000	.000	-11.700	55.000	LREF 14.2440
(TEMP26)	ARC 97-747 CAS23 B C M F VI V	.000	.000	-11.700	65.000	BREF 78.1000
						WREF 30.5010
						WREF 11.2000
						SCALE 1.0000



PITCHING MOMENT COEFFICIENT (FWD C.G.), CLMFW

FIG. 9 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPEEDBRK	REFERENCE INFORMATION
[TEK024]	ARC 97-747 BA538 B C M F V I V	.000	.000	-11.700	25.000	SREF 2.4210 SQ.FT.
[TEK011]	ARC 97-747 BA538 B C M F V I V	.000	.000	-11.700	55.000	LREF 14.2440 IN.
[TEK038]	ARC 97-747 BA538 B C M F V I V	.000	.000	-11.700	85.000	CREF 28.1004 IN.
						XREF 32.5010 IN.
						YREF .0000 IN.
						ZREF 11.2500 IN.
						SCALE .0000

PITCHING MOMENT COEFFICIENT (AFT C.G.), CLMAFT

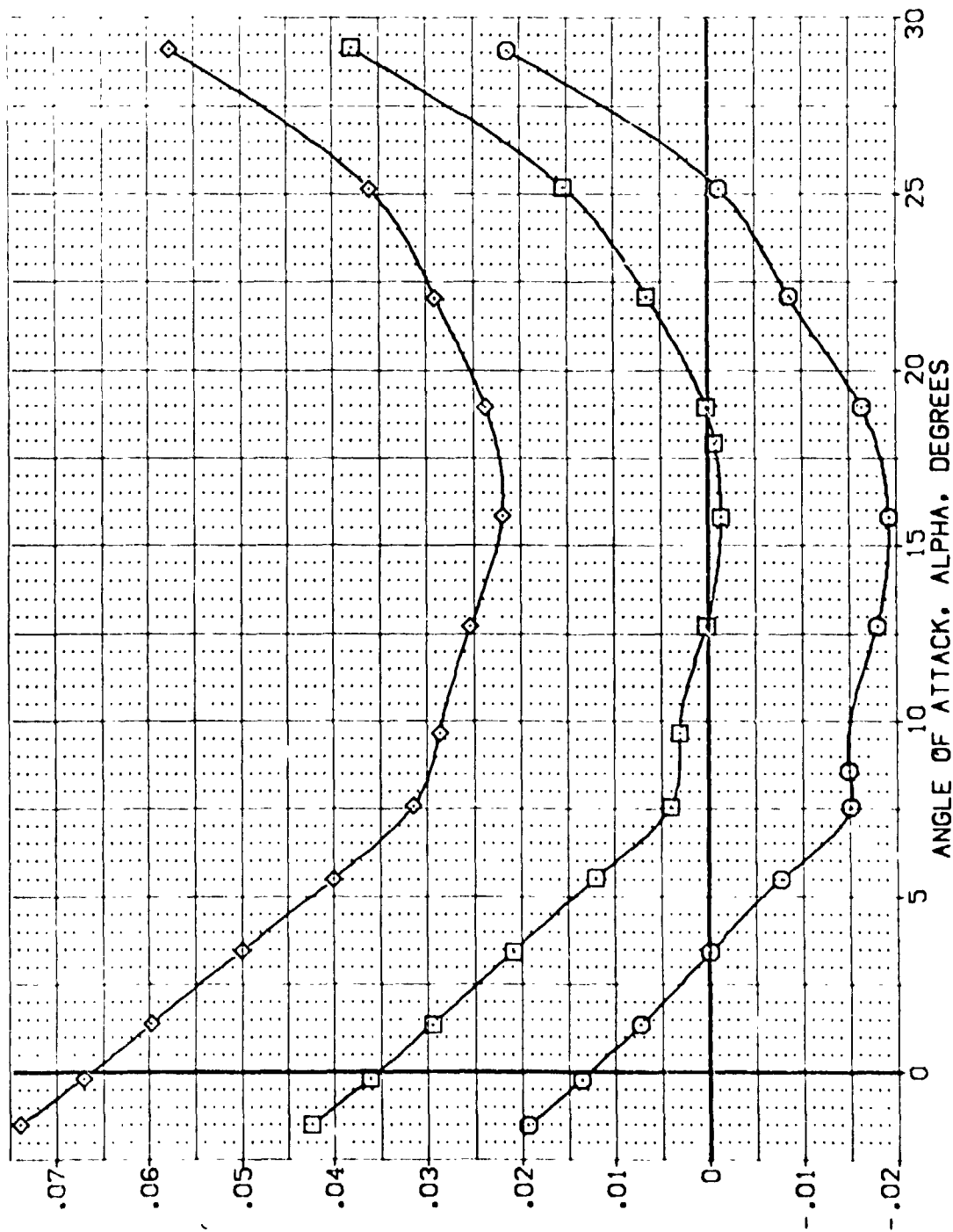


FIG. 9 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPODBRK	REFERENCE INFORMATION
(TEK024)	ARC 97-747 DAS38 B C H F VI V	.000	.000	-11.700	25.000	SREF 2.4210
(TEK011)	ARC 97-747 DAS38 B C H F VI V	.000	.000	-11.700	55.000	LREF 14.2440
(TEK038)	ARC 97-747 DAS38 B C H F VI V	.000	.000	-11.700	65.000	BREF 28.1004
						XCREF 32.1010
						YMREF .0000
						ZMREF 11.2000
						SCALE .0330

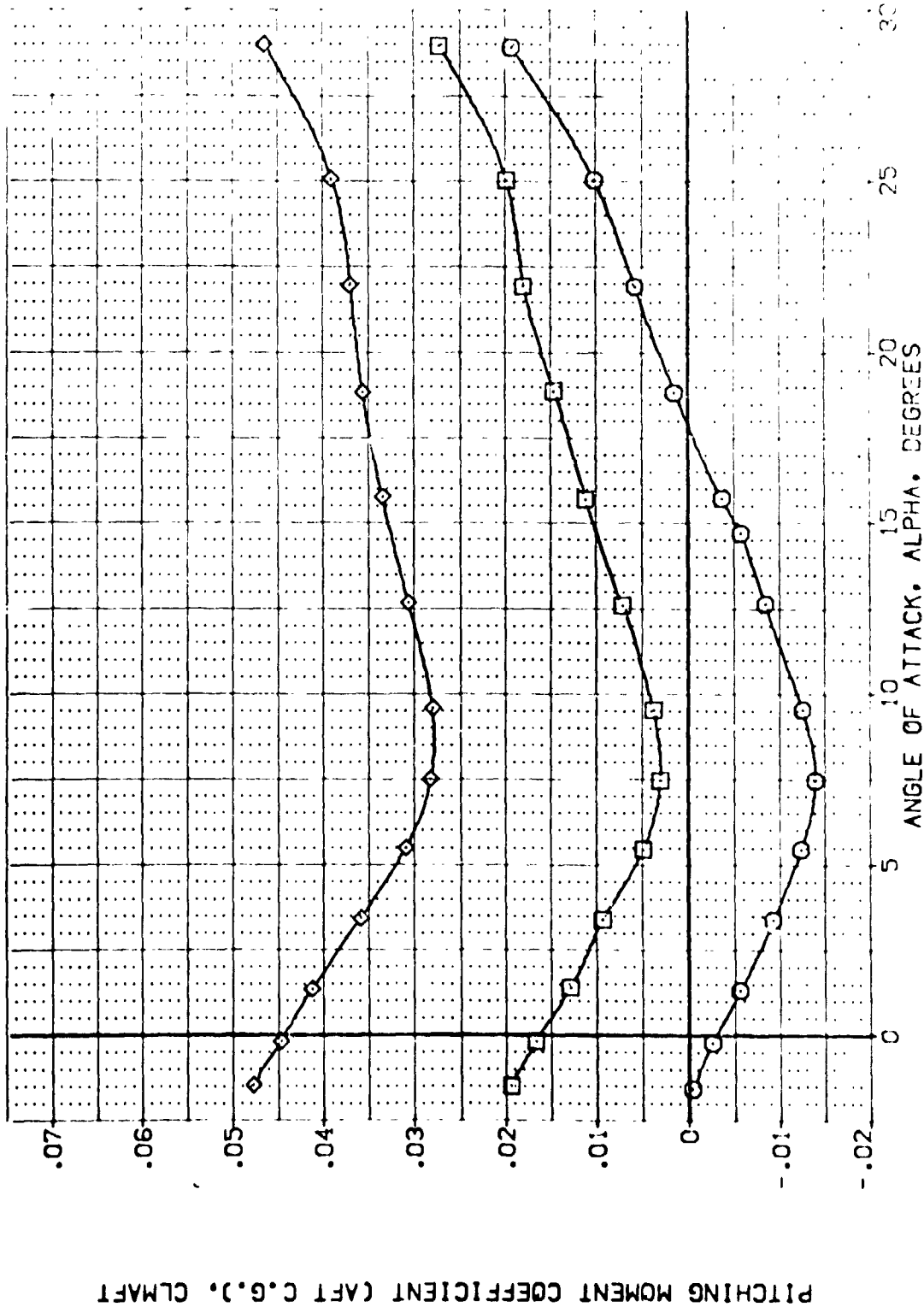


FIG. 9 SPEEDBRAKE EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
[TEK074]	ARC 97-747 C4538 B C M F V1 V	.000	.000	-11.700	25.000	SREF 2.4210 50. FT.
[TEK011]	ARC 97-747 C4538 B C M F V1 V	.000	.000	-11.700	55.000	LREF 14.2140 IN.
[TEK033]	ARC 97-747 C4538 B C M F V1 V	.000	.000	-11.700	65.000	BREF 20.1000 IN.
						YREF 32.3310 IN.
						YREF 11.0000 IN.
						ZREF 11.0000 IN.
						SCALE .0000

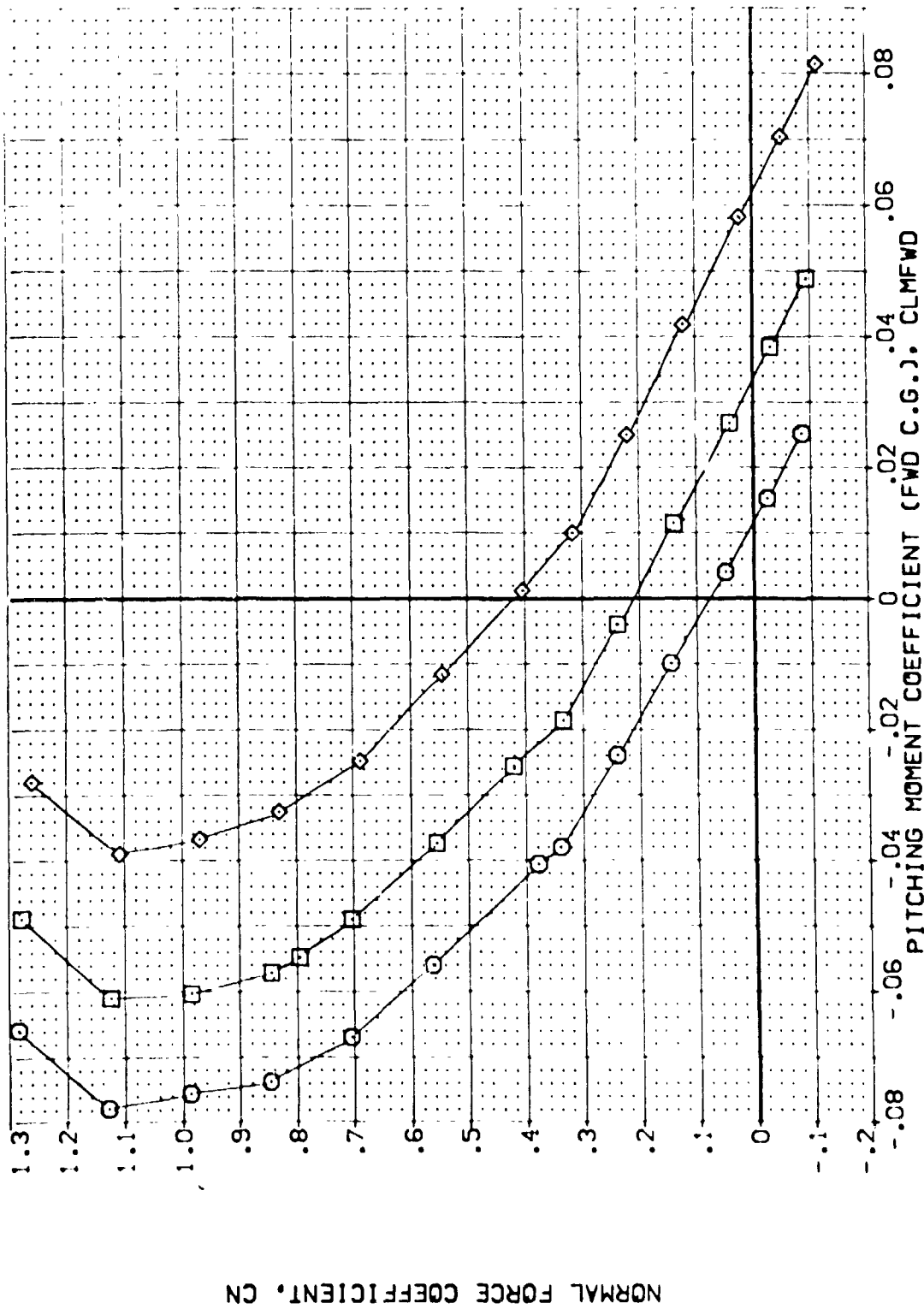


FIG. 9 SPEEDBRAKE EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEK024)	ARC 97-747 OAS38 B C M F V1 V	.000	.000	-11.700	25.000	SREF 2.4210 SQ.FT.
(TEK011)	ARC 97-747 OAS33 B C M F V1 V	.000	.000	-11.700	55.000	LREF 14.2440 IN.
(TEK038)	ARC 97-747 OAS33 B C M F V1 V	.000	.000	-11.700	65.000	BREF 28.1004 IN.
						XREF 32.5010 IN.
						YREF 0.0000 IN.
						ZREF 11.2000 IN.
						SCALE .0000

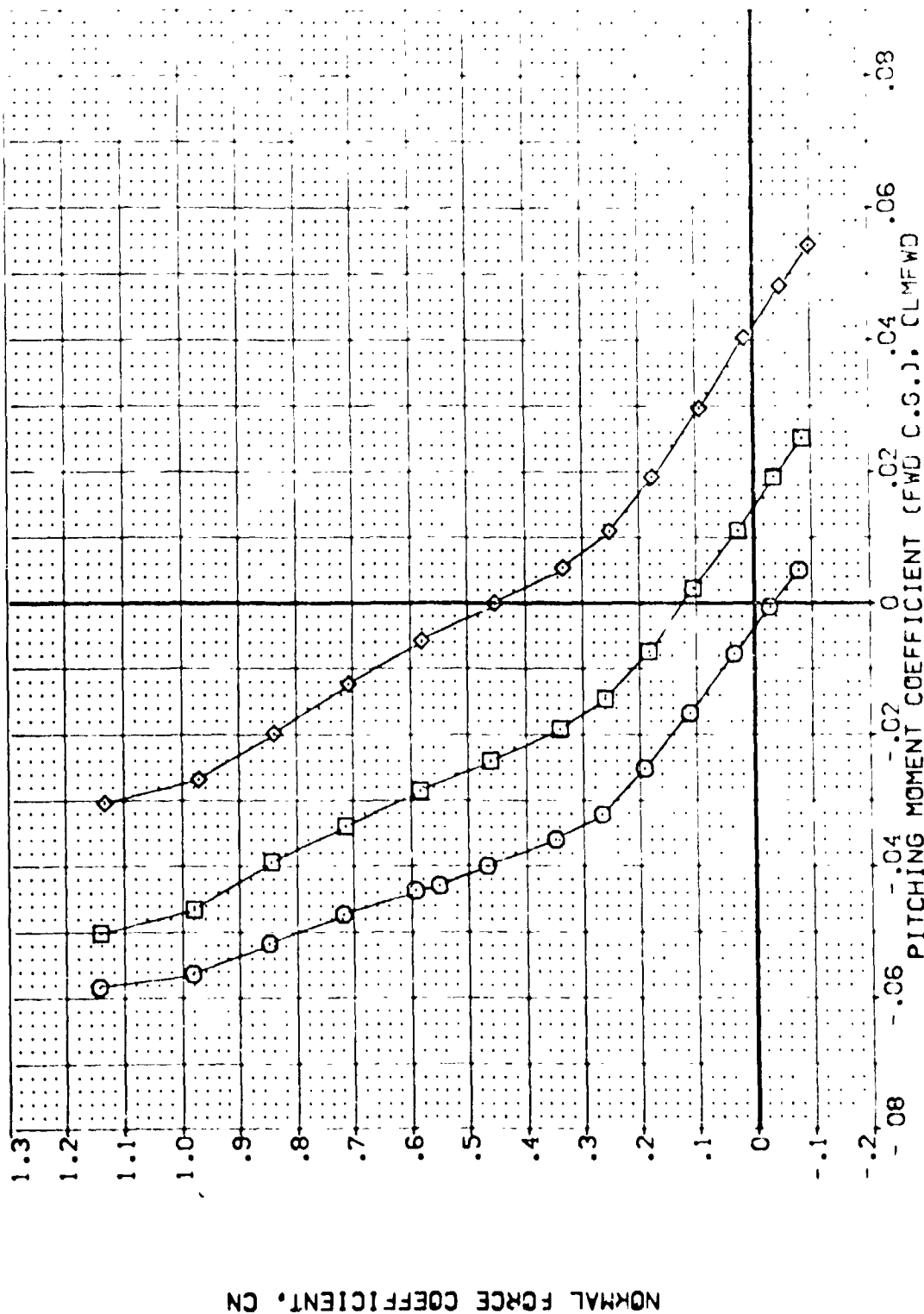


FIG. 9 SPEEDBRAKE EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
[TEMP024]	ARC 97-747 B4538 B C M F V1 V	.000	.000	-11.700	25.000	SREF	2.4210 SQ.FT.
[TEMP011]	ARC 97-747 B4538 B C M F V1 V	.000	.000	-11.700	55.000	LREF	14.2440 IN.
[TEMP038]	ARC 97-747 B4538 B C M F V1 V	.000	.000	-11.700	65.000	BREF	28.1004 IN.
						XM.P	32.3013 IN.
						YM.PP	11.0000 IN.
						ZM.PP	11.0000 IN.
						SCALE	.0000 SCALE

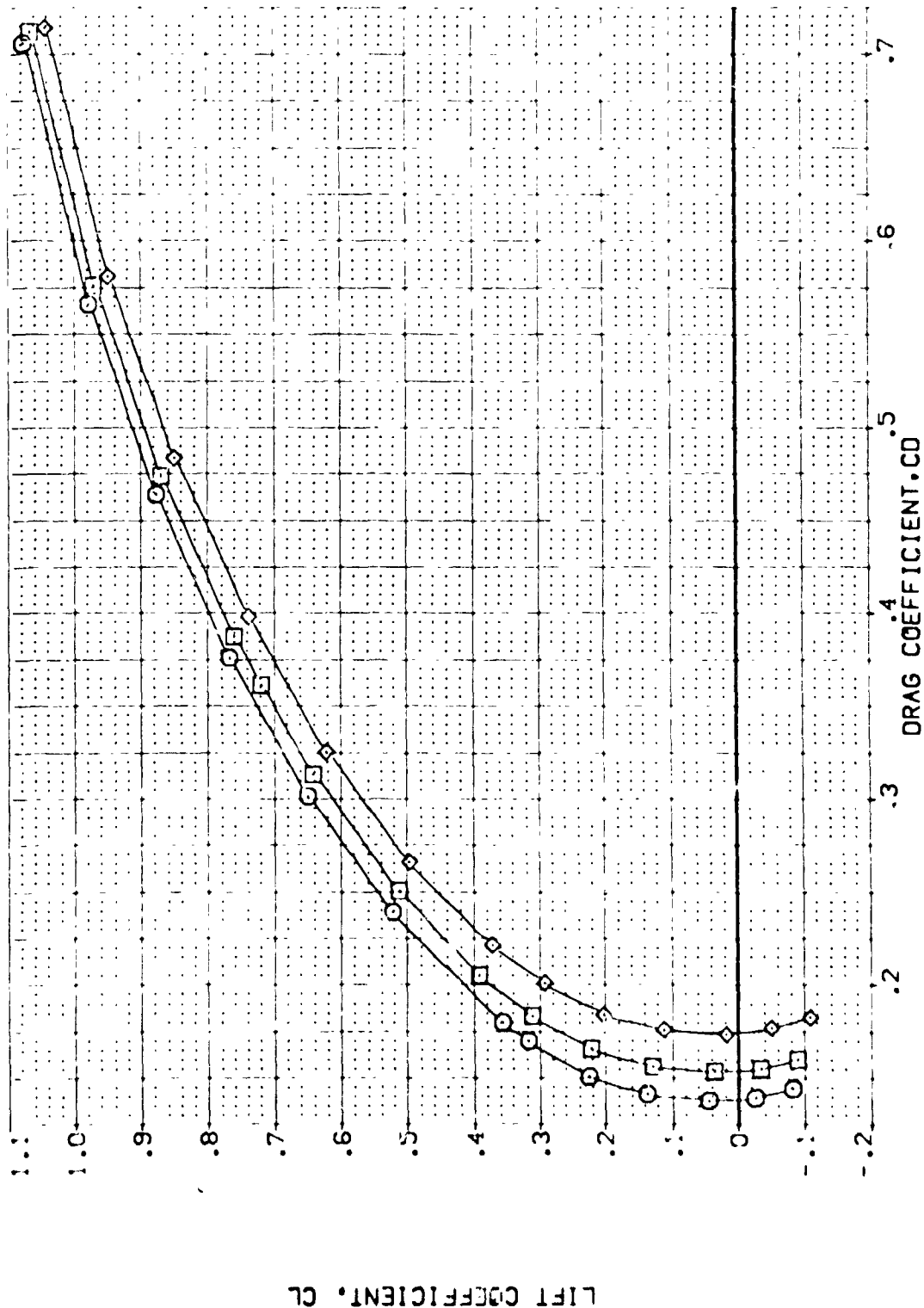


FIG. 9 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEK024)	ARC 97-747 DAS38 B C H F VI V	.000	.000	-11.700	25.000	SREF 2.4210
(TEK011)	ARC 97-747 DAS38 B C H F VI V	.000	.000	-11.700	55.000	LREF 14.2440
(TEK038)	ARC 97-747 DAS38 B C H F VI V	.000	.000	-11.700	65.000	BREF 28.1000
						XMRP 32.0010
						YMRP .0000
						ZMRP 11.2500
						SCALE .0500

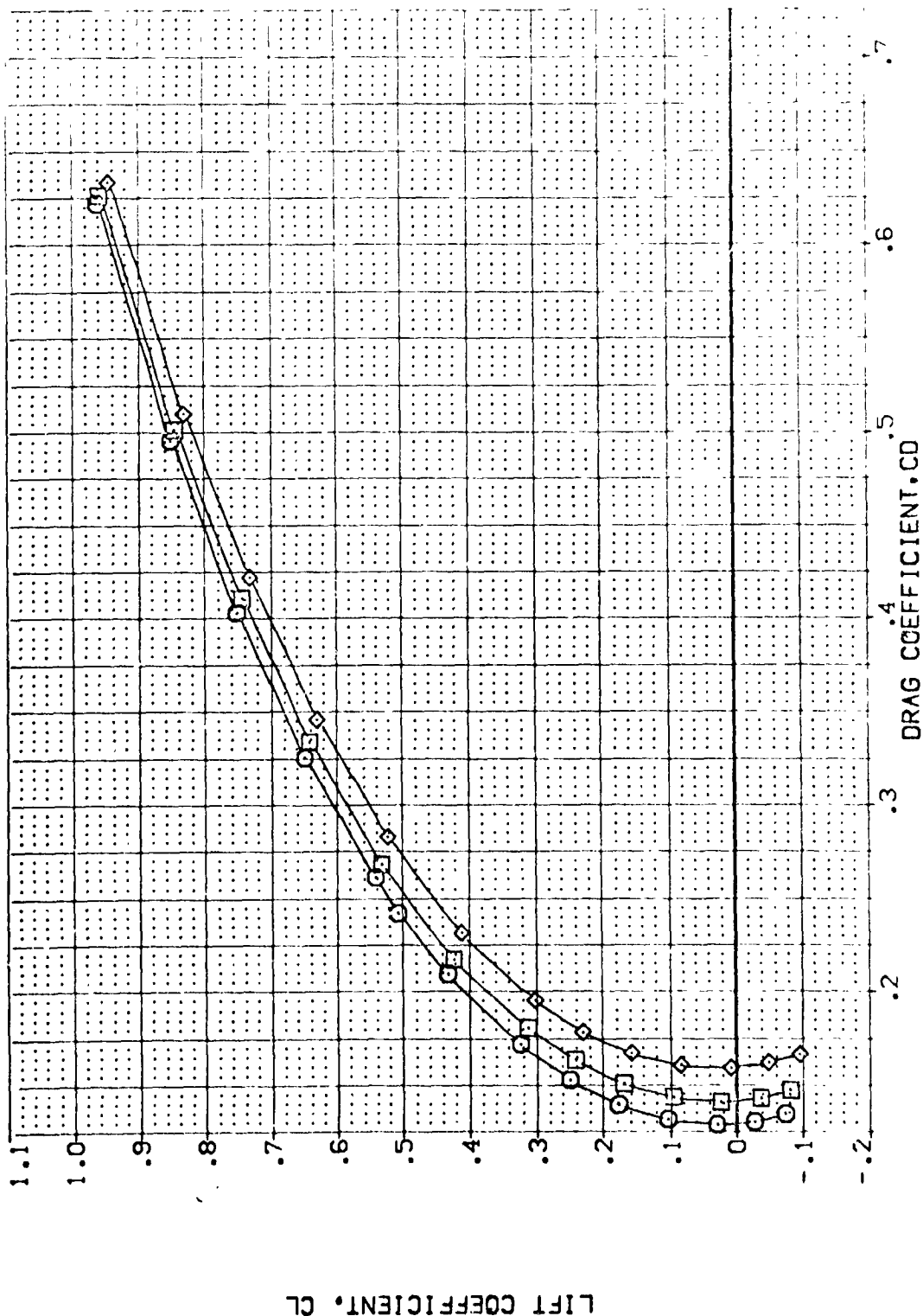


FIG. 9 SPEEDBRAKE EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AIRLIFT	BOFLAP	SPEED	REFERENCE INFORMATION
[TEK024]	ARC 97-747 CAS38 B C M F V1 V	.000	.000	-11.700	25.000	SREF 2.4210
[TEK011]	ARC 97-747 CAS38 B C M F V1 V	.000	.000	-11.700	55.000	LREF 14.2440
[TEK038]	ARC 97-747 CAS38 B C M F V1 V	.000	.000	-11.700	85.000	SREF 28.1004
						XMRP 32.0010
						YMRP .0000
						ZMRP 11.2500
						SCALE .0000
						50. FT.
						IN.
						IN.
						IN.
						IN.
						SCALE

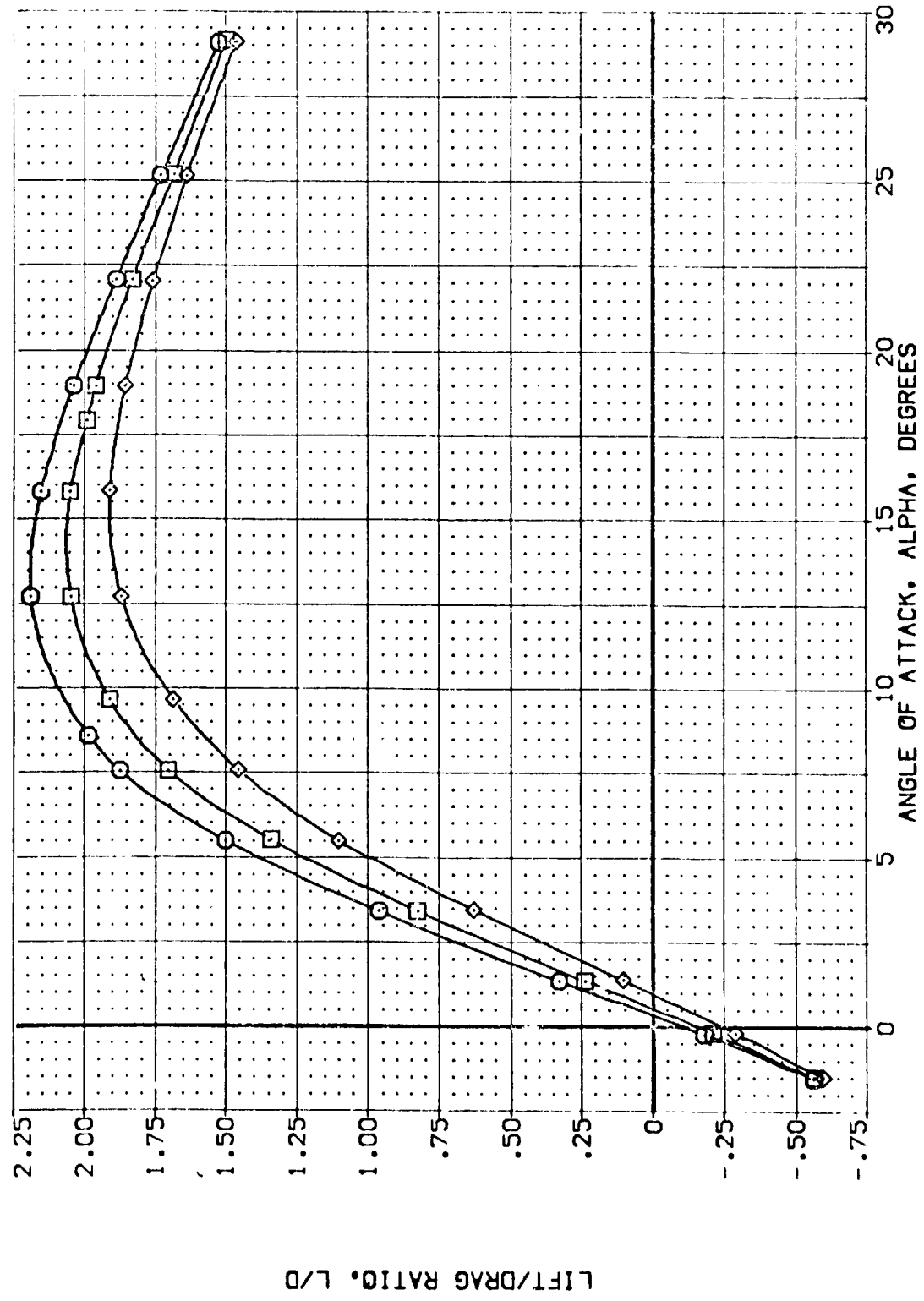


FIG. 9 SPEEDBRAKE EFFECTS

(MACH = 1.60)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPODBRK	REFERENCE INFORMATION
(TEM024)	ARC 97-747 CAS38 B C H F V	.000	.000	-11.700	75.000	REF 2.4213
(TEM011)	ARC 97-747 CAS38 B C H F V	.000	.000	-11.700	55.000	LREF 14.2470
(TEM038)	ARC 97-747 D/S38 B C H F V	.000	.000	-11.700	65.000	UPREF 28.1004
						DOWNREF 32.1010
						VMREF 11.2600
						SCALE 1.0000

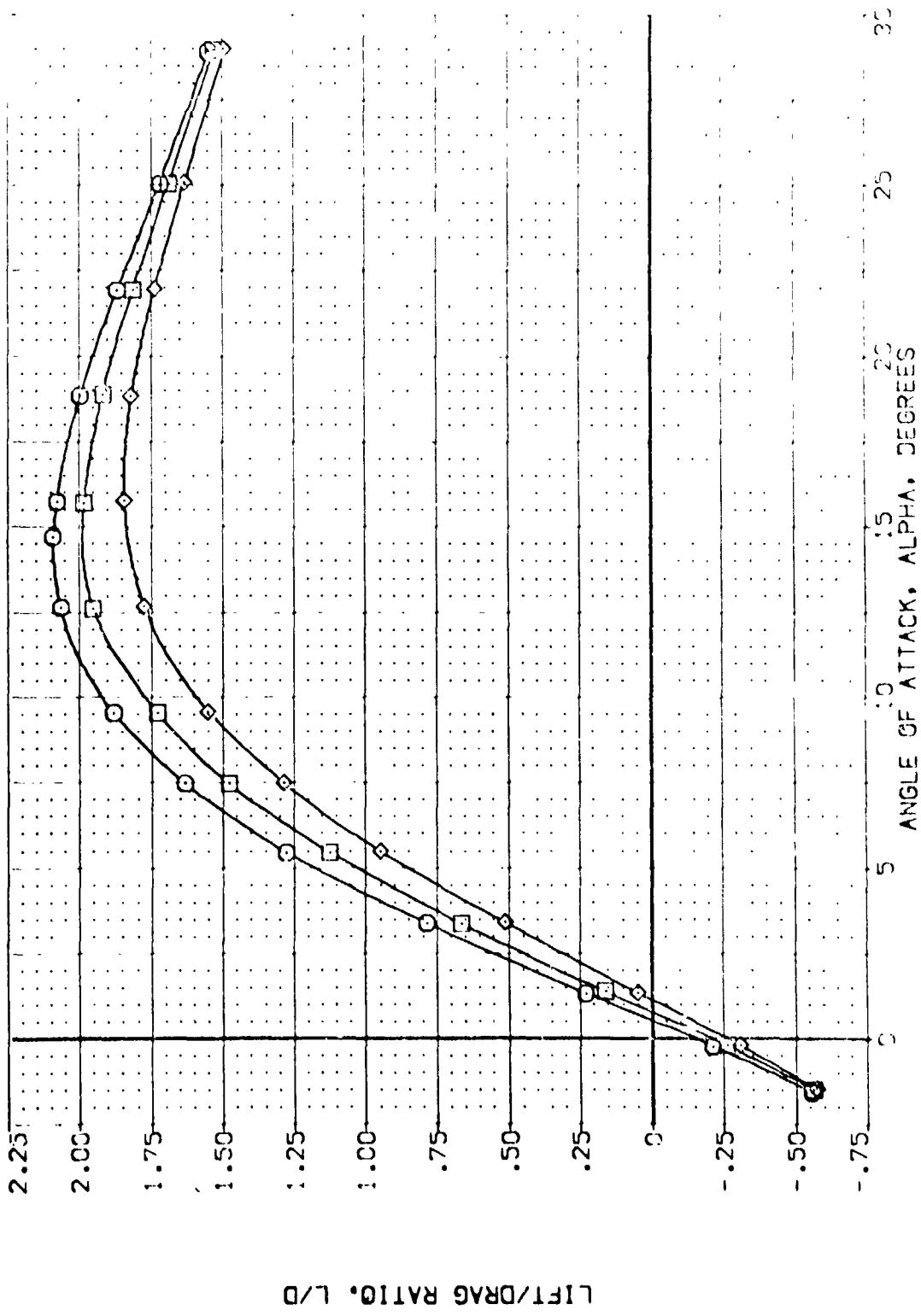


FIG. 9 SPEEDBRAKE EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		AILRON		BOFLAP		SPOBRK		REFERENCE INFORMATION	
[AEP074]	Q	APC 97-747	CA523 B C M F V	V	NOM: RVL	.000	.000	-11.700	25.000	2.4210	52.17		
[AEP074]	Q	APC 97-747	CA523 B C M F V	V	NOM: RVL	.000	.000	-11.700	55.000	14.2440	14.2440		
[AEP074]	Q	APC 97-747	CA523 B C M F V	V	NOM: RVL	.000	.000	-11.700	86.000	28.1000	28.1000		
[AEP080]	Q	APC 97-747	CA538 B C M F V	V	NOM: RVL	.000	.000	-11.700	86.000	32.3310	32.3310		
										11.7500	11.7500		
										1.0300	1.0300		
										SCALE	SCALE		

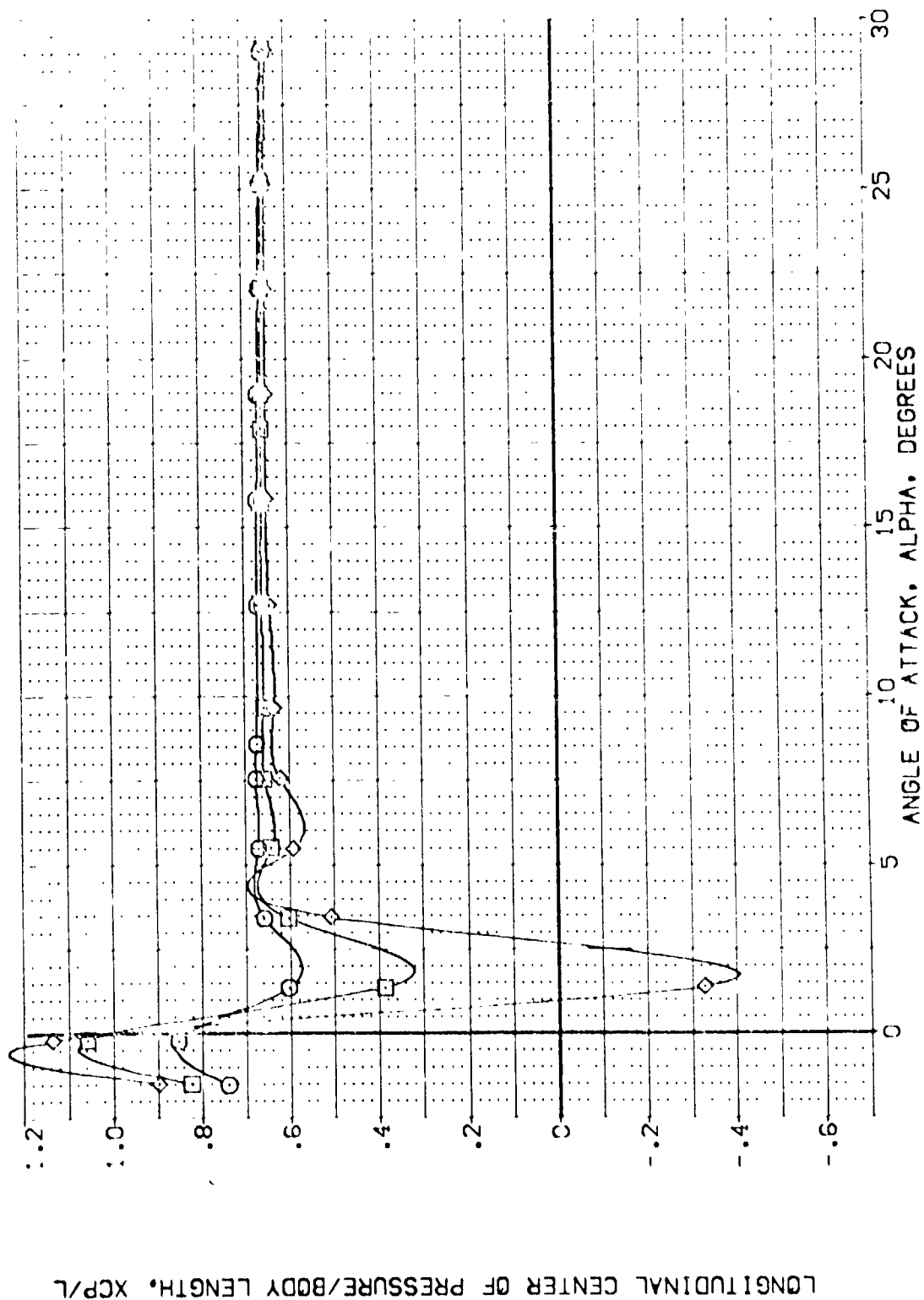


FIG. 9 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

{AEK024}	ARC 97-747	0A538 B C M F VI	V	NON	RV/L
{AEK011}	ARC 97-747	0A538 B C M F VI	V	NON	RV/L
{AEK038}	ARC 97-747	0A538 B C M F VI	V	NON	RV/L

ELEVON AILRON BOFLAP SPEEDRK

.000	.000	-11.700	25.000
.000	.000	-11.700	55.000
.000	.000	-11.700	65.000

REFERENCE INFORMATION

SREF	2.4210	50.00
LREF	14.2440	11.00
BREF	28.1004	11.00
XMPP	32.5010	11.00
YMPP	.0000	11.00
ZMPP	11.2500	11.00
SCALE	.0300	11.00

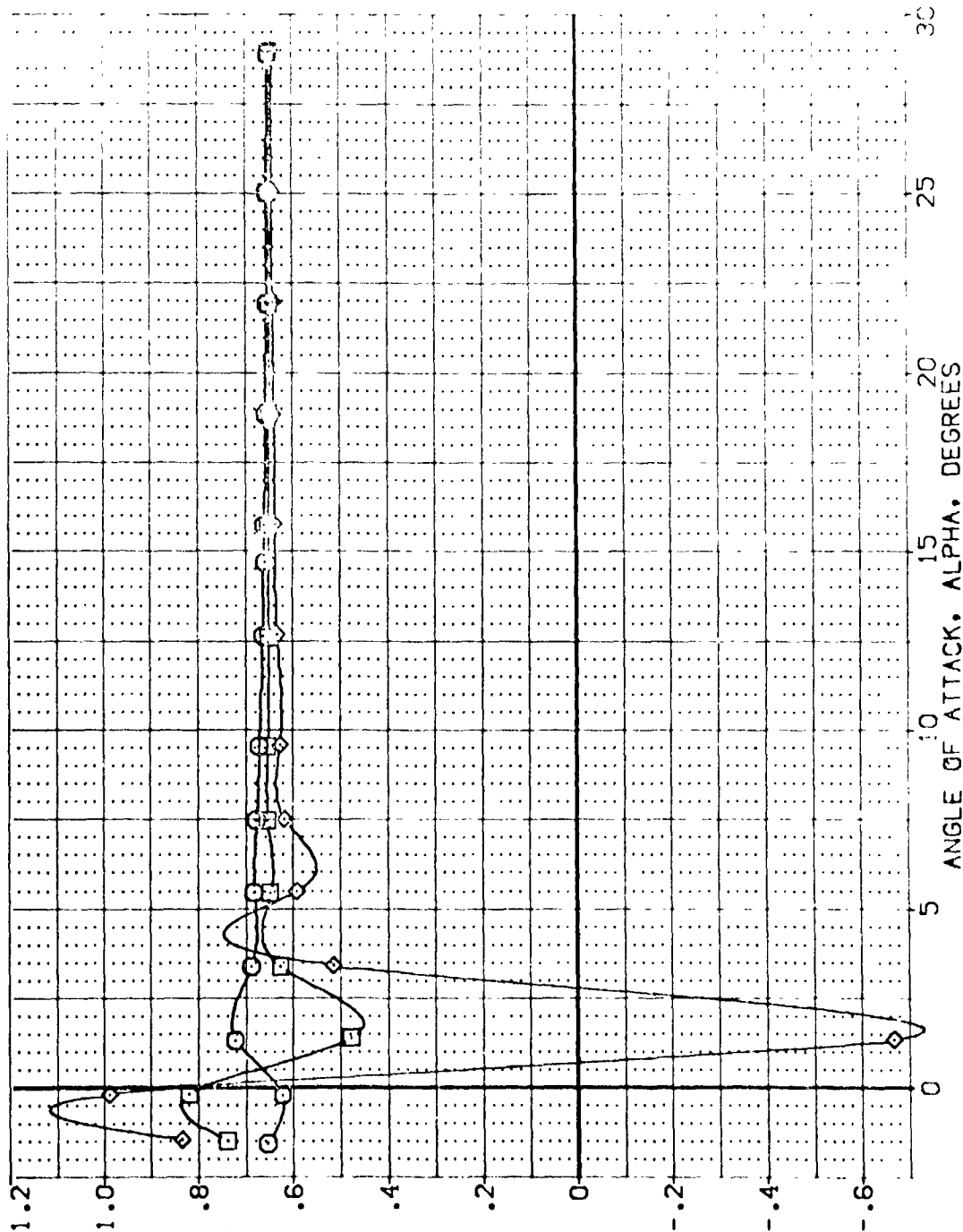


FIG. 9 SPEEDBRAKE EFFECTS

{B}MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	DSB	REFERENCE INFORMATION	
(DEMO11)	APC 97-747 CAS33 B C M F V	.000	.000	-11.700	30.000	SREF	2.4210 SQ. FT.
(VER030)	APC 97-747 CAS33 B C M F V	.000	.000	-11.700	60.000	LREF	14.2440 IN.
						BREF	23.1004 IN.
						XMED	32.3010 IN.
						YMED	0.0000 IN.
						ZMED	11.2500 IN.
						SCALE	.0000

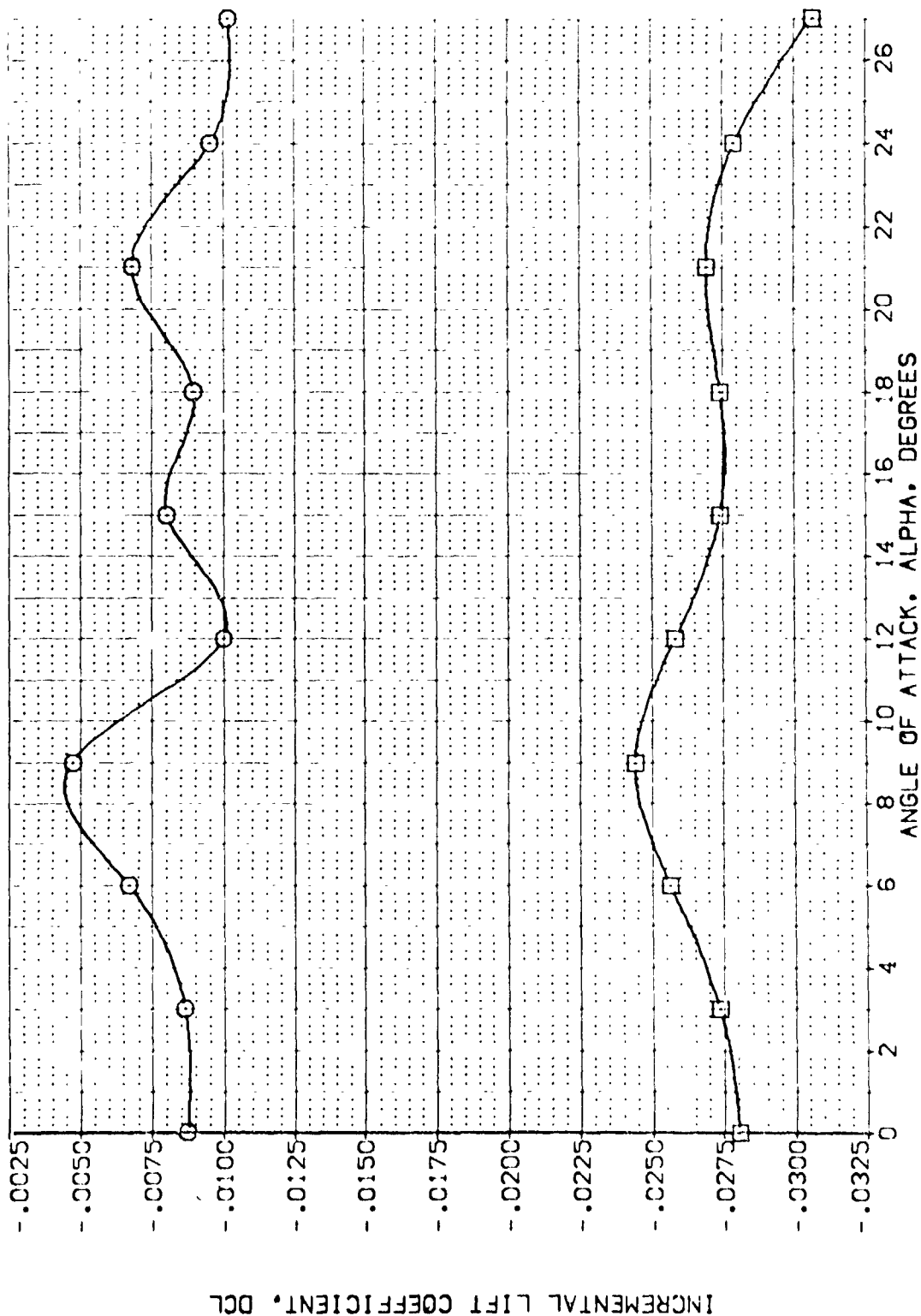


FIG. 9 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL: (DEMO11) (VER038) CONFIGURATION DESCRIPTION: ARC 97-747 C14538 B C H F VI V NMH: RVUL ARC 97-747 C14538 B C H F VI V NMH: RVUL

ELEVATION: .000 AILTRON: .000 BOFLAP: 30.000 DSB: 30.000

REFERENCE INFORMATION: SREF: 2.4210 52.4210 52.4210 LREF: 14.2440 14.2440 14.2440 EREF: 28.1004 28.1004 28.1004 XREF: 52.3310 52.3310 52.3310 YREF: .0000 .0000 .0000 ZREF: 11.2500 11.2500 11.2500 SCALE: .0000 .0000 .0000

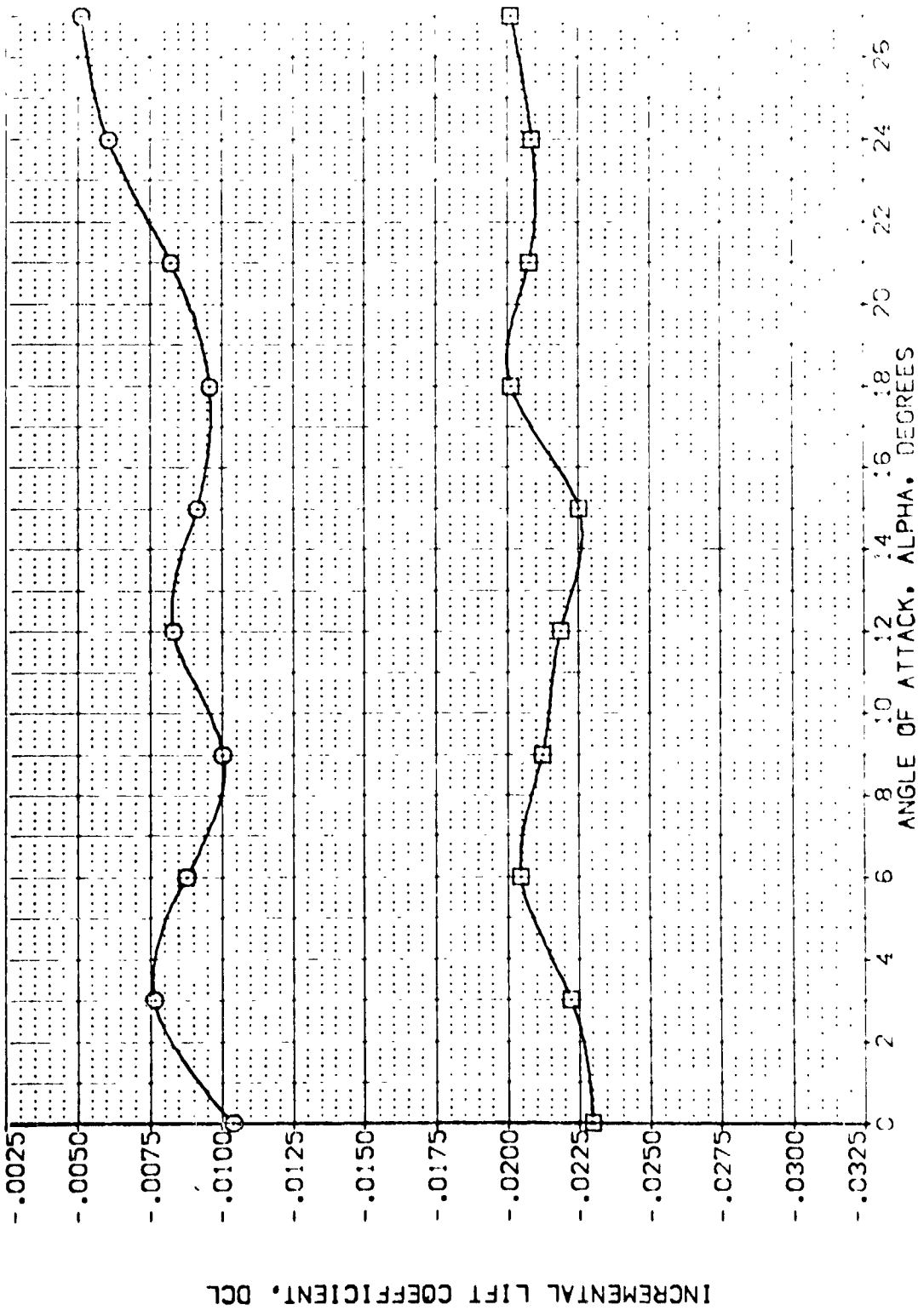


FIG. 9 SPEEDBRAKE EFFECTS

(B) MAC = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		AILLON		BOLAP		DSB		REFERENCE INFORMATION	
(0E011)	(VE038)	ARC 97-747	0A538 B C M F V	V	NOM	RVL	.000	.000	-11.700	30.000	2.4219	50.000	50.000
		ARC 97-747	0A533 B C M F V	V	NOM	RVL	.000	.000	-11.700	60.000	14.2640	14.2640	14.2640
											32.1000	32.1000	32.1000
											11.2500	11.2500	11.2500
											SCALE	SCALE	SCALE

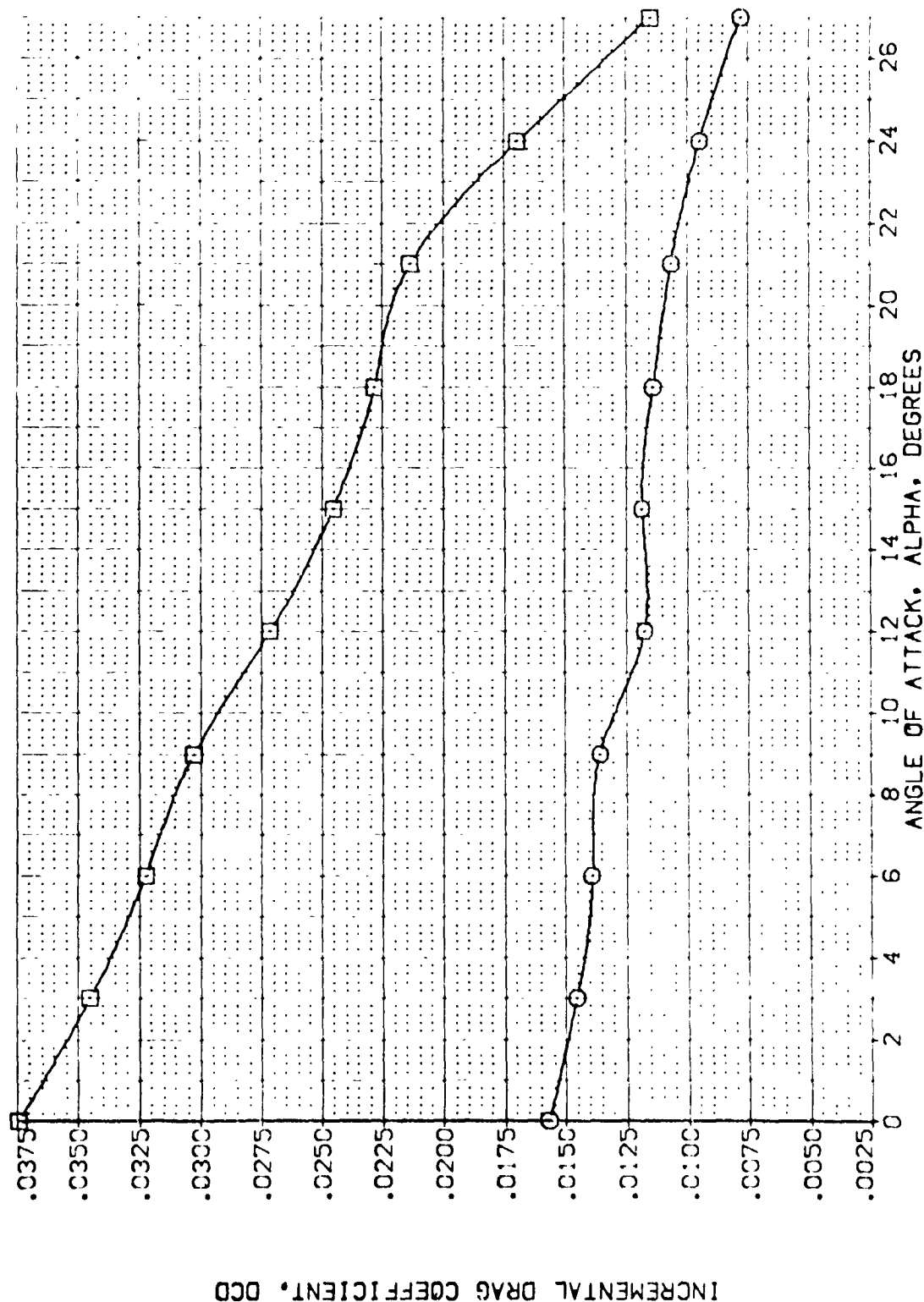


FIG. 9 SPEEDBRAKE EFFECTS

(M)MACH = 1.60

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		AILRON		BOFLAP		DS3		REFERENCE INFORMATION	
(00011)	ARC 97-747	0AS3B	B C H F V	V	NON	RV/L						SREF	2.4210
(VER038)	ARC 97-747	0AS3B	B C H F V	V	NON	RV/L	.000	.000	-11.700	30.000		LREF	14.2410
							.000	.000	-11.700	60.000		BREF	29.1004
												VMREF	32.5000
												VMREF	.0000
												ZMREF	11.2000
												SCALE	.0300

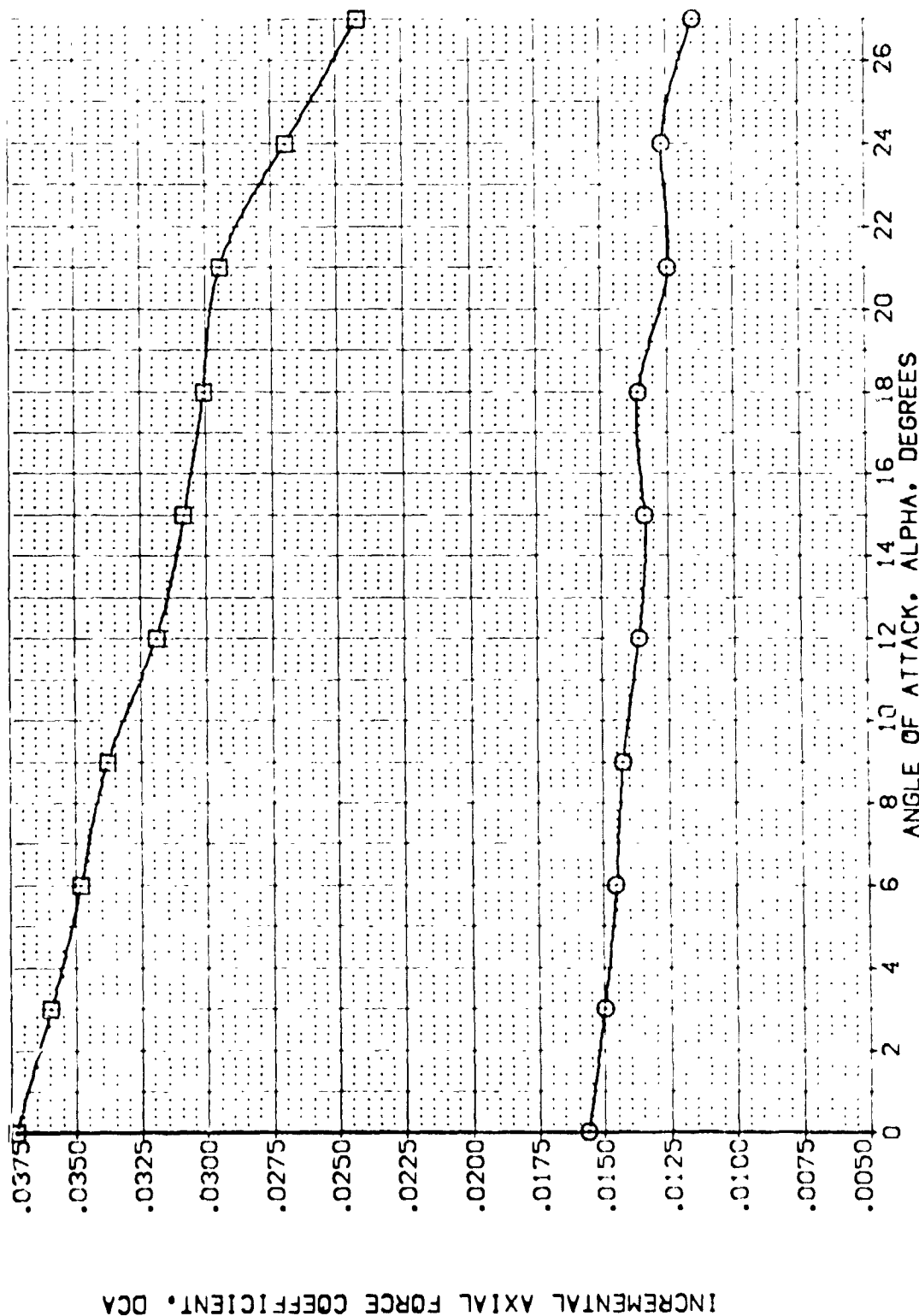


FIG. 9 SPEEDBRAKE EFFECTS

(MACH = 1.60)

DATA SET SYMBOL: (061011) (VEN0308) CONFIGURATION DESCRIPTION: ARC 97-747 0A538 B C M F V I V 100% RV/L 100% RV/L ELEVON: .000 .000 AILRON: .000 .000 BOFLAP: -11.700 -11.700 DSB: 30.000 60.000 REFERENCE INFORMATION: SREF: 2.4210 SQ.FT. LREF: 14.2440 IN. BREF: 28.1004 IN. XMRP: 32.3010 IN. YMRP: .0000 IN. ZMRP: 11.2500 IN. SCALE: .0300

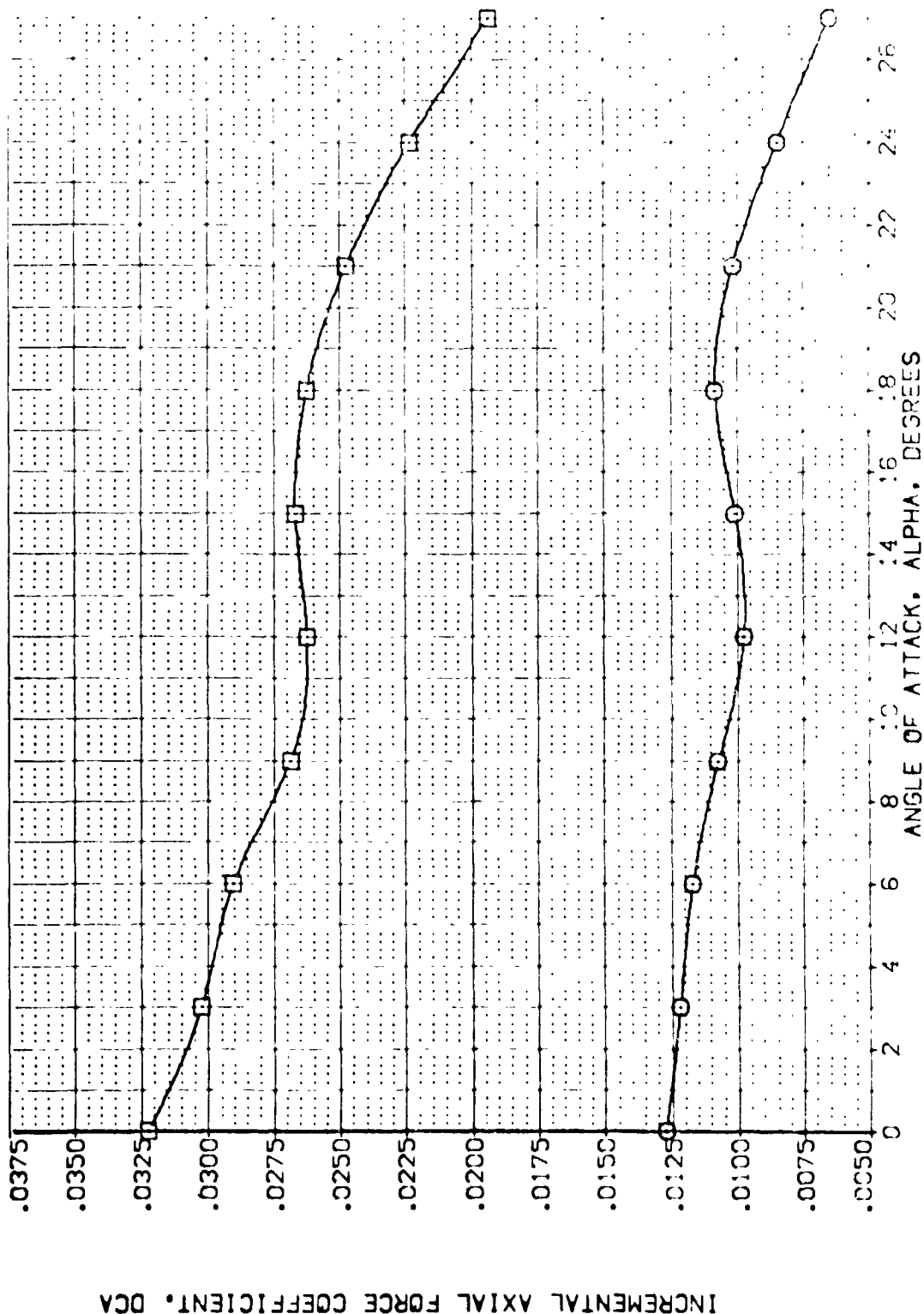


FIG. 9 SPEEDBRAKE EFFECTS

(B) MACH = 2.00

DATA SET SYMBOL: Q
 CONFIGURATION DESCRIPTION: ARC 97-747 BAS38 B C H F V I V N04, RV/L
 (DEMO11) ARC 97-747 BAS38 B C H F V I V N04, RV/L
 (VEK038)

ELEVATION: .000
 AIRLON: .000
 BOFLAP: -11.700
 DSB: 30.000
 60.000

REFERENCE INFORMATION:
 SREF: 2.4210 50.17
 LREF: 14.1440 10
 CREF: 28.1000 10
 XREF: 32.0000 10
 YREF: 11.0000 10
 ZREF: 11.0000 10
 SCALE: .0000

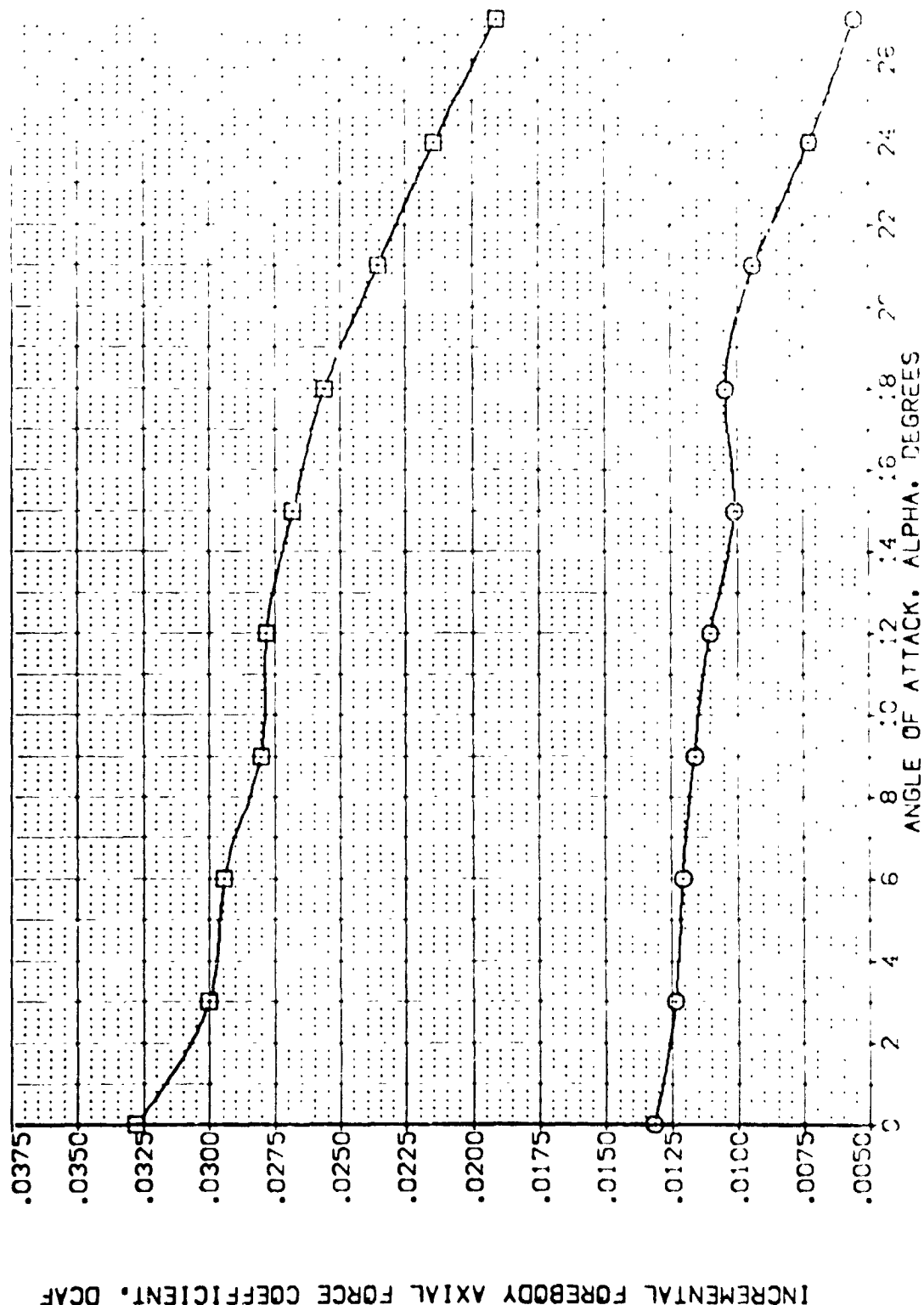


FIG. 9 SPEEDBRAKE EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	DSB	REFERENCE INFORMATION
(01011)	ARC 97-747 CAS33 B C M F V: V	.000	.000	-11.700	30.000	SREF 2.4210 SQ.FT.
(101036)	ARC 97-747 CAS33 B C M F V: V	.000	.000	-11.700	60.000	LREF 14.2440 IN.
						CREF 20.1004 IN.
						YREF 32.0010 IN.
						YREF 10.000 IN.
						ZREF 11.000 IN.
						SCALE 10.000

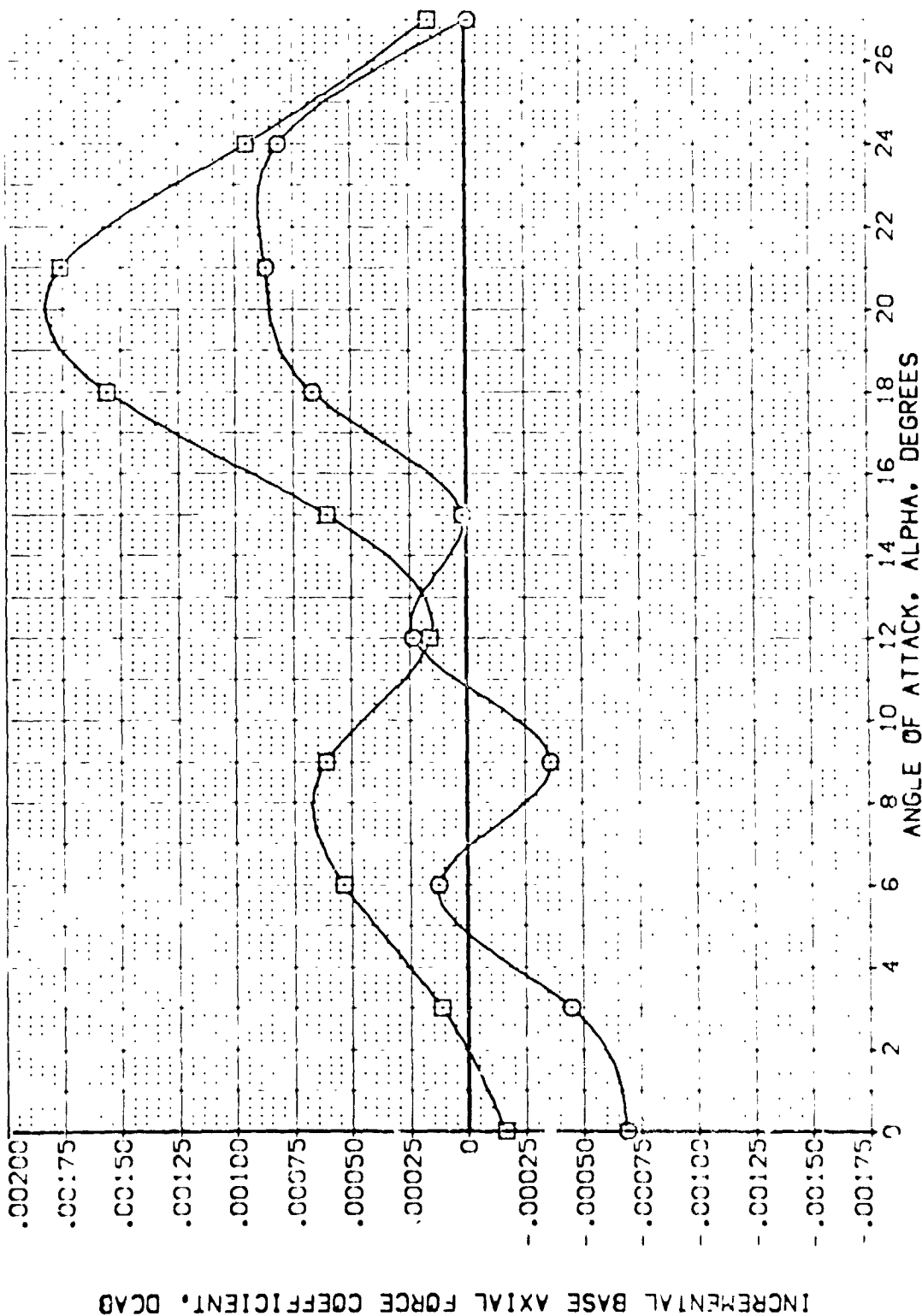


FIG. 9 SPEEDBRAKE EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	DSB	REFERENCE INFORMATION
(CEK011)	ARC 97-747 DAS3B B C M F VI	.000	.000	-11.700	30.000	SREF 2.4210 SQ. FT.
(VER038)	ARC 97-747 DAS3B B C M F VI	.000	.000	-11.700	30.000	LREF 14.2440 IN.
						EREF 20.1004 IN.
						XMRP 32.3316 IN.
						YMRP .0000 IN.
						ZMRP 11.2500 IN.
						SCALE .0300

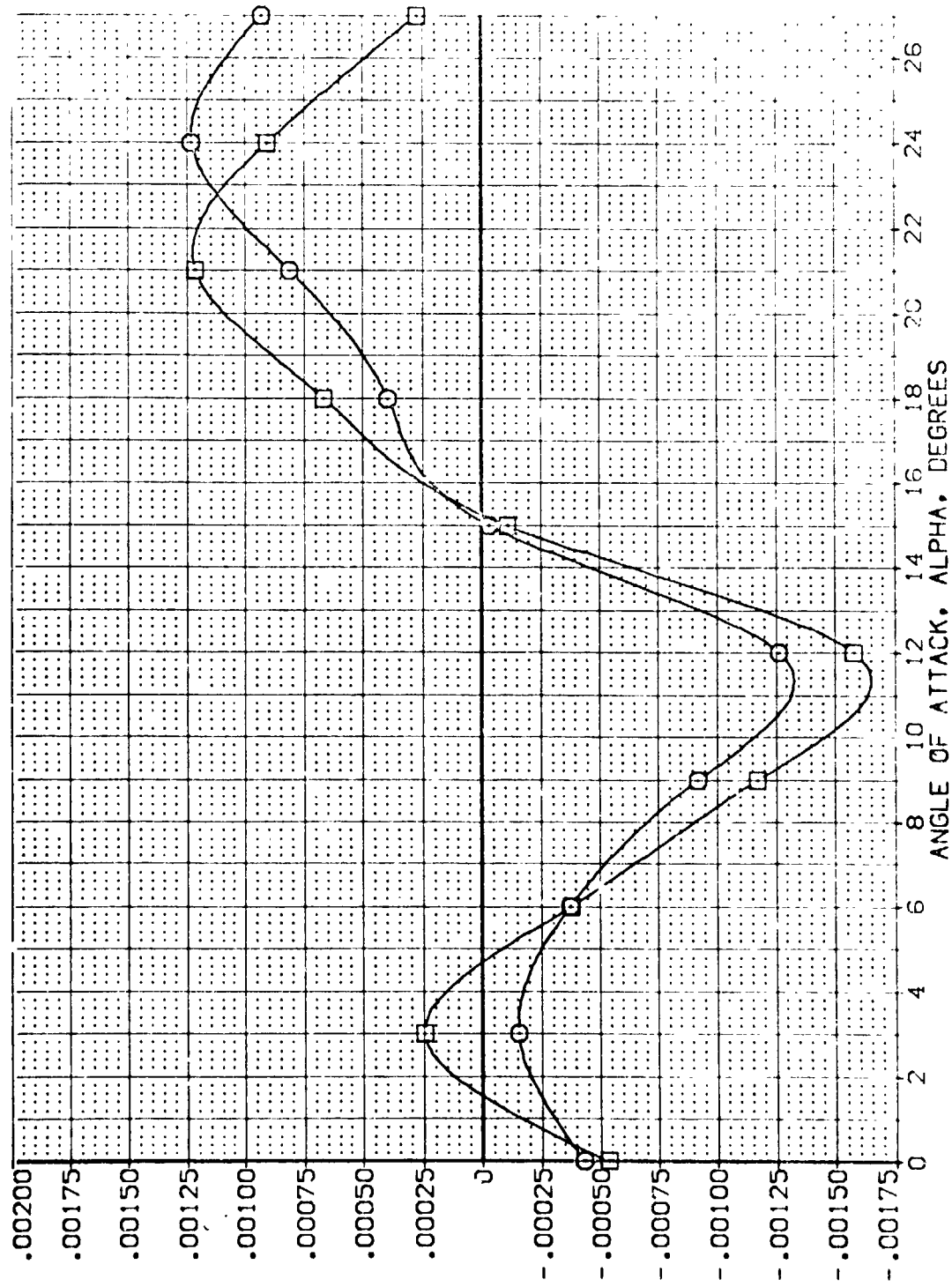


FIG. 9 SPEEDBRAKE EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		AILRON		BOFLAP		DSB		REFERENCE INFORMATION	
{	DEMO11}	ARC	97-747	CA553	B	C	M	F	V	V	NON.	RV/L	SREF
{	VER-038}	ARC	97-747	CA553	B	C	M	F	V	V	NON.	RV/L	LREF
													2.4210
													14.2440
													28.1000
													32.3010
													11.2500
													SCALE
													0.0300

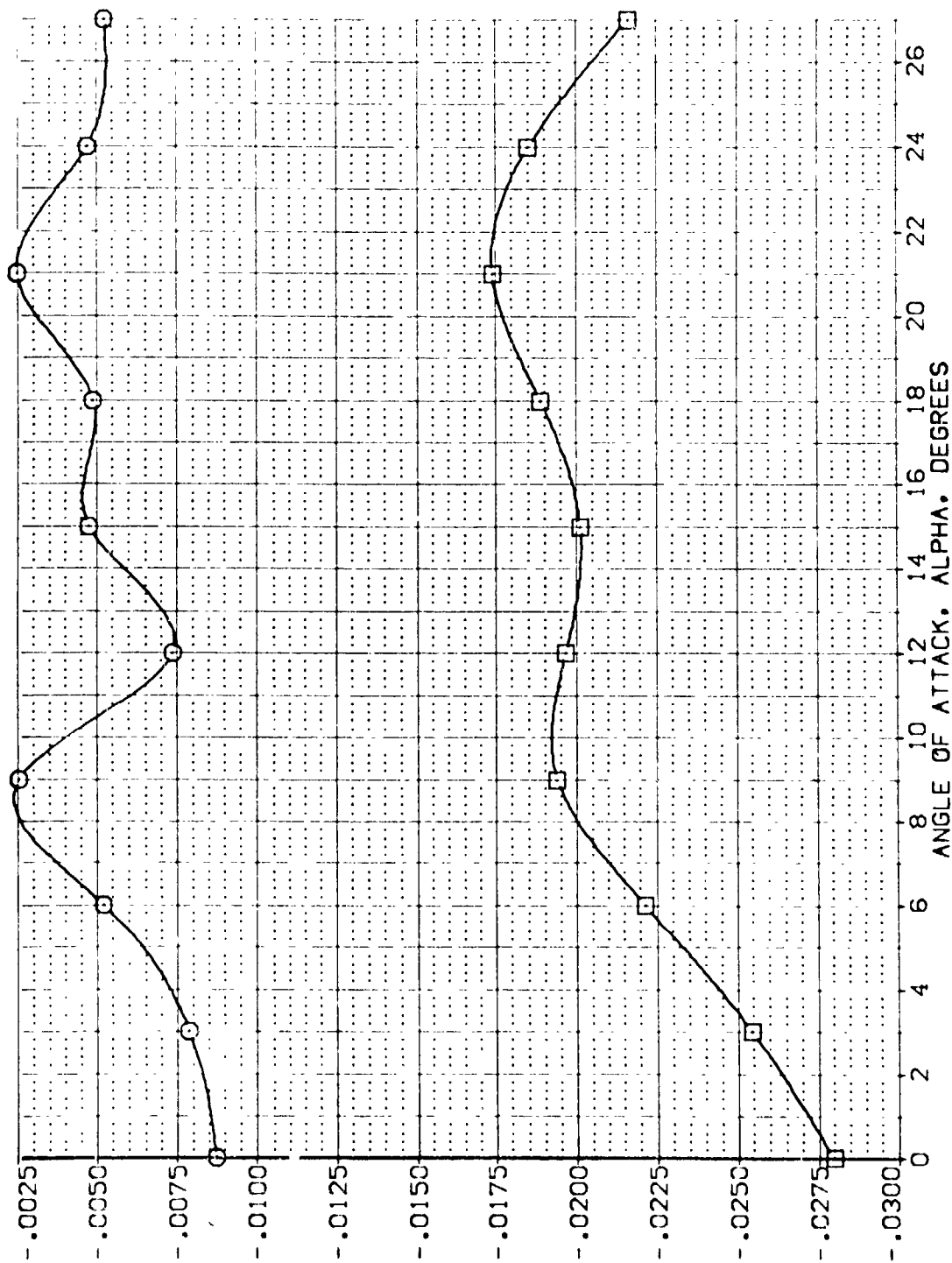


FIG. 9 SPEEDBRAKE EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CER011) ARC 97-747 0A538 B C M F VI V NOM. RNVL

(VER038) ARC 97-747 0A538 B C M F VI V NOM. RNVL

ELEVON AILRON BOFLAP DSB

.000 .000 -11.700 30.000

.000 .000 -11.700 60.000

REFERENCE INFORMATION

SREF 2.4210 SQ.FT.

LREF 14.2440

BREF 28.1000

AREP 32.0010

YMRP .0000

ZMRP 11.2500

SCALE .0000

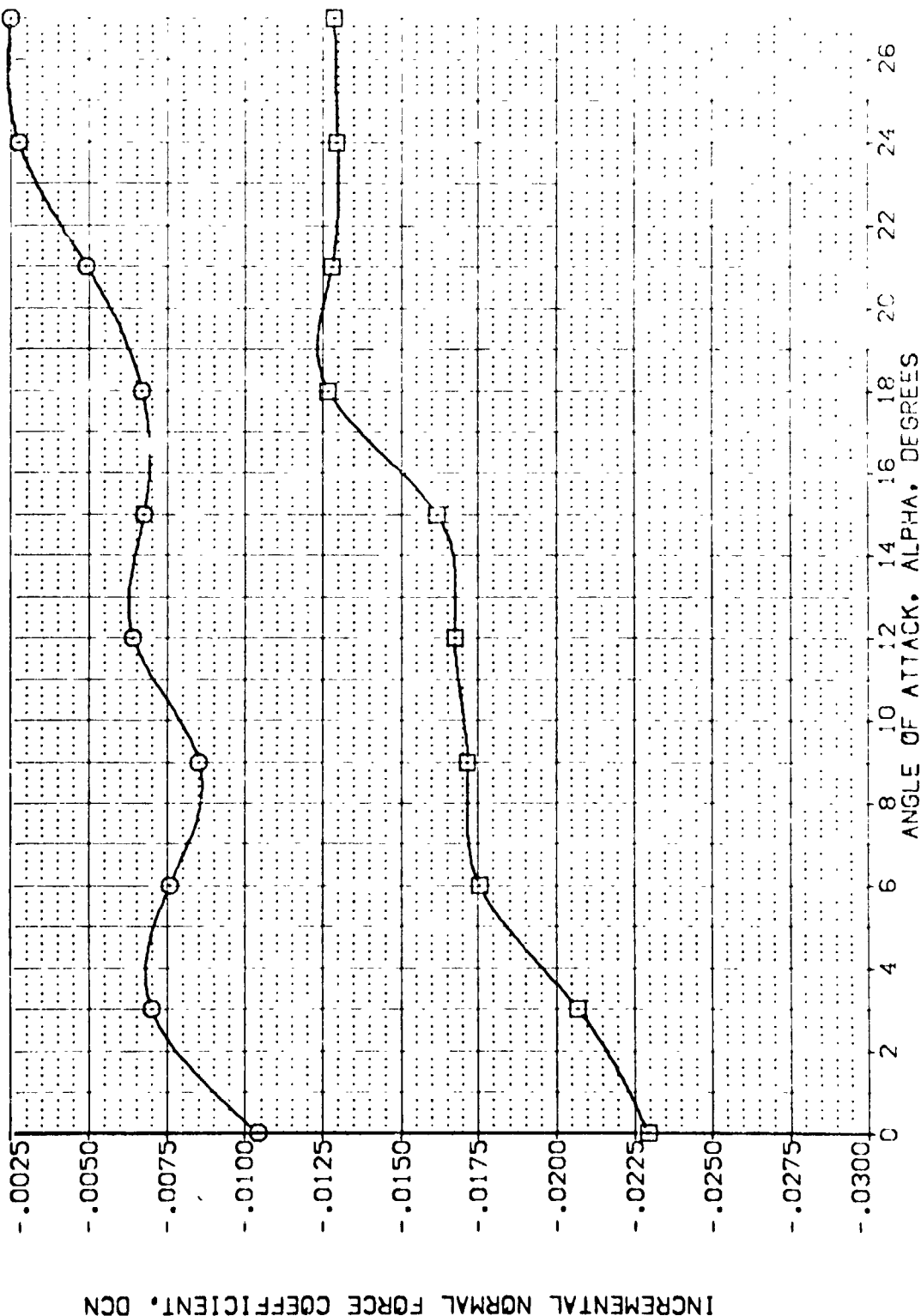


FIG. 9 SPEEDBRAKE EFFECTS

(B) VACH = 2.00

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NAME	AGE	SEX	REL	STATUS	EDUC	IND	REL	STATUS	EDUC	IND	REL	STATUS	EDUC	IND
ALLEN, A	30	M	H	W	HS	W	W	W	HS	W	W	W	HS	W
BROWN, B	25	F	D	W	HS	W	W	W	HS	W	W	W	HS	W
CHEN, C	35	M	H	W	HS	W	W	W	HS	W	W	W	HS	W
DAVIS, D	40	F	D	W	HS	W	W	W	HS	W	W	W	HS	W
EVANS, E	20	M	H	W	HS	W	W	W	HS	W	W	W	HS	W
FRANK, F	30	F	D	W	HS	W	W	W	HS	W	W	W	HS	W
GREEN, G	25	M	H	W	HS	W	W	W	HS	W	W	W	HS	W
HILL, H	35	F	D	W	HS	W	W	W	HS	W	W	W	HS	W
JACKSON, J	40	M	H	W	HS	W	W	W	HS	W	W	W	HS	W
KELLY, K	20	F	D	W	HS	W	W	W	HS	W	W	W	HS	W
LEWIS, L	30	M	H	W	HS	W	W	W	HS	W	W	W	HS	W
MARTIN, M	25	F	D	W	HS	W	W	W	HS	W	W	W	HS	W
NEEDHAM, N	35	M	H	W	HS	W	W	W	HS	W	W	W	HS	W
OLSON, O	40	F	D	W	HS	W	W	W	HS	W	W	W	HS	W
PETERSON, P	20	M	H	W	HS	W	W	W	HS	W	W	W	HS	W
ROBERTS, R	30	F	D	W	HS	W	W	W	HS	W	W	W	HS	W
SCOTT, S	25	M	H	W	HS	W	W	W	HS	W	W	W	HS	W
SMITH, S	35	F	D	W	HS	W	W	W	HS	W	W	W	HS	W
THOMAS, T	40	M	H	W	HS	W	W	W	HS	W	W	W	HS	W
WATSON, W	20	F	D	W	HS	W	W	W	HS	W	W	W	HS	W
YOUNG, Y	30	M	H	W	HS	W	W	W	HS	W	W	W	HS	W

SPEE	2.4210	SCALE
LDEF	14.2440	"
EDEF	28.1004	"
AUDC	32.1004	"
CDC	11.7550	"
ZINC	11.7550	"
SCALE	.0300	SCALE

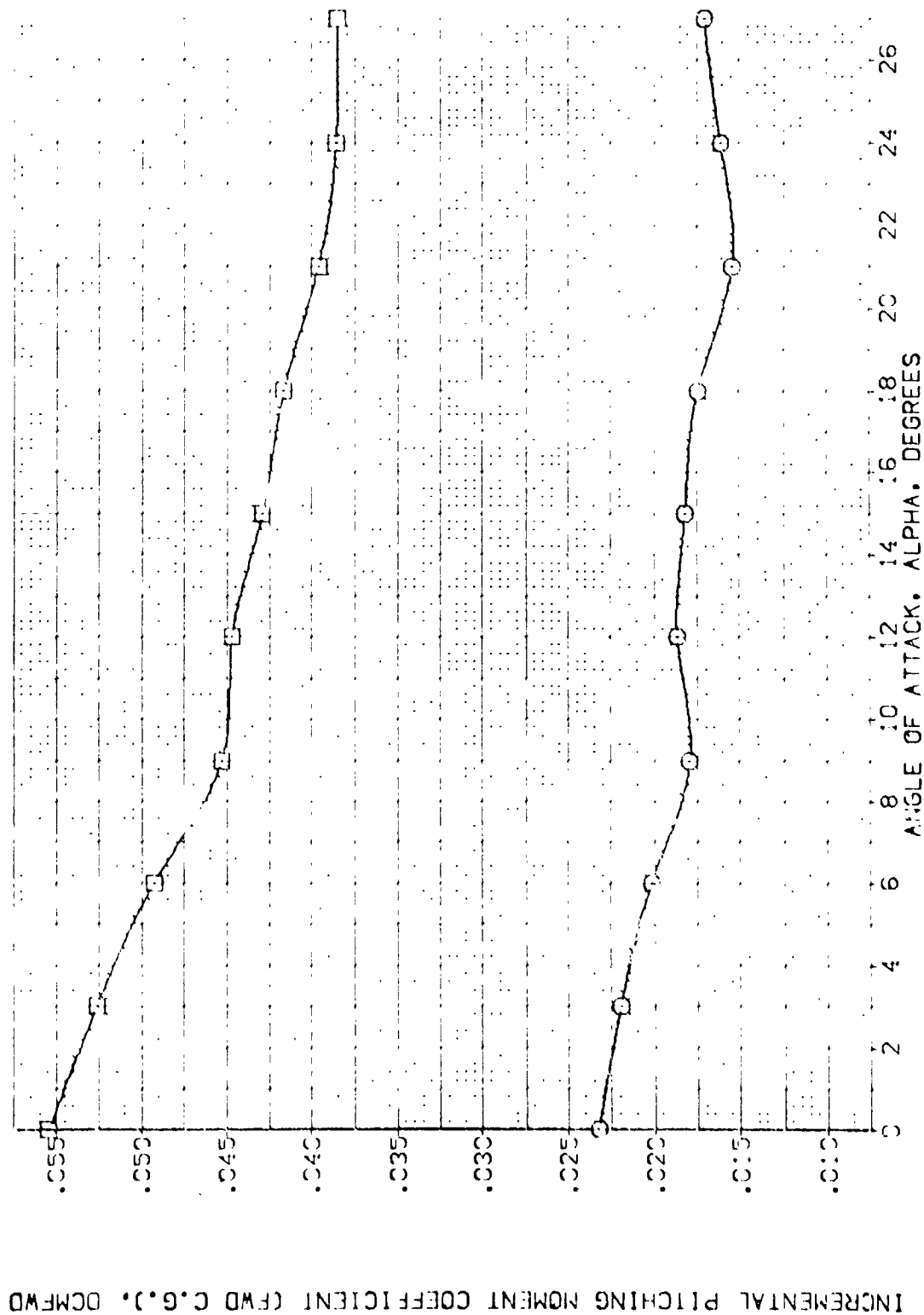


FIG. 9 SPEEDBRAKE EFFECTS

$$C(A) \vee A C = 1.60$$

DATA SET SYMBOL: [DEMO11] [VEK038] CONFIGURATION DESCRIPTION: ARC 97-747 OAS38 B C M F V1 V NOM. RV/L NOM. RV/L ELEVON: .000 .000 AILRON: .000 .000 BOFLAP: -11.700 -11.700 CSB: 30.000 60.000 REFERENCE INFORMATION: 2.4213 SQ. FT. 14.2443 IN. 29.100% IN. 32.0010 IN. 11.2603 IN. SCALE: .0003

INCREMENTAL PITCHING MOMENT COEFFICIENT (FWD C.G.), DCMFWD

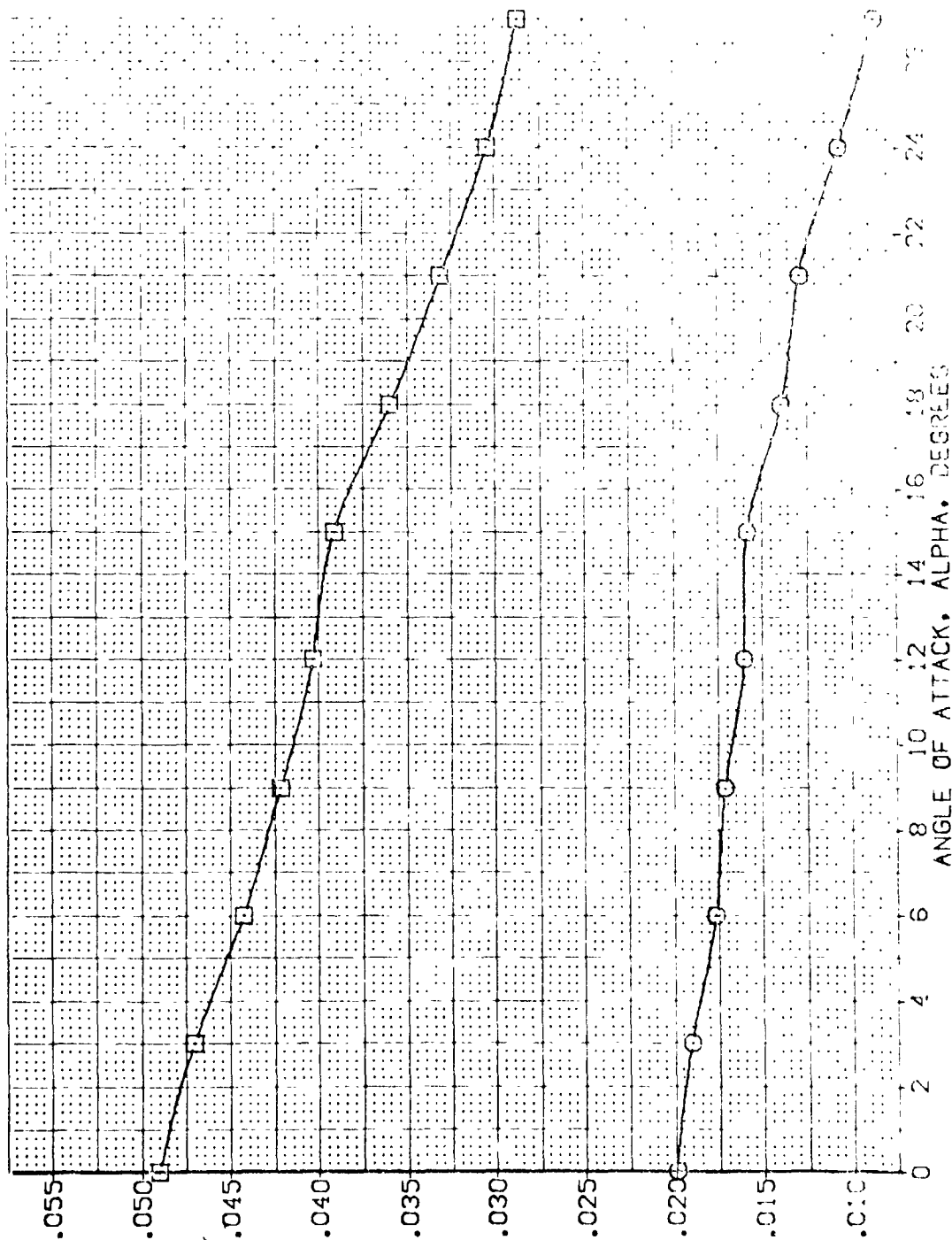


FIG. 9 SPEEDBRAKE EFFECTS

(B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	BOFLAP	DSB	REFERENCE INFORMATION
(DEMO:1)	ARC 97-747 CAS38 B C M F V	.000	.000	-11.700	30.000	2.4210
(VERK38)	ARC 97-747 CAS38 B C M F V	.000	.000	-11.700	60.000	14.2440
						23.1000
						32.1000
						11.2500
						SCALE

INCREMENTAL PITCHING MOMENT COEFFICIENT (CFT C.G.), DCMFT

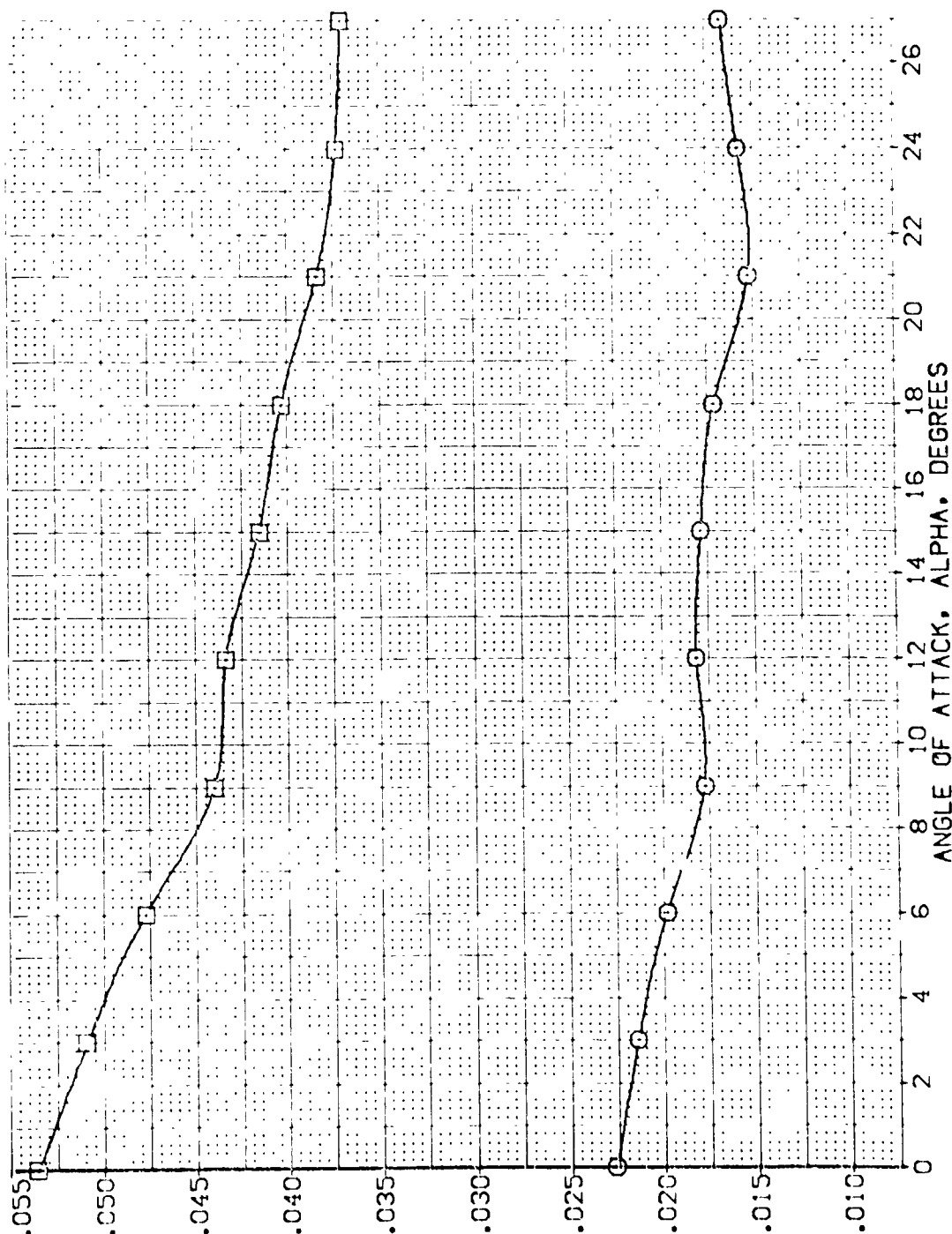
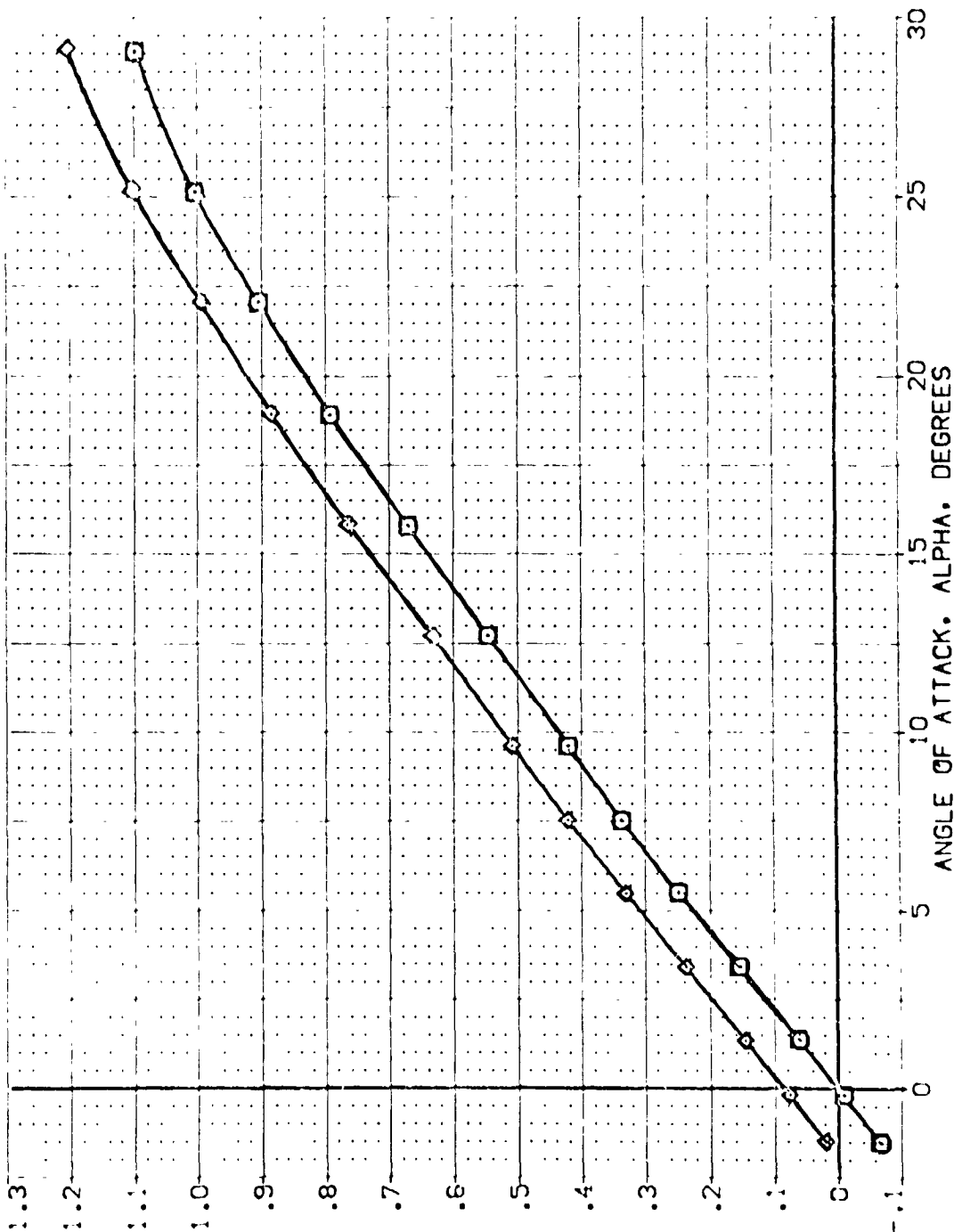


FIG. 9 SPEEDBRAKE EFFECTS

(M)MACH = 1.60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	ALL-ON	BOF-LAP	SPOBRK	REFERENCE INFORMATION
[15-010]	○	ARC 97-747 CAS38 B C M F V	.000	.000	16.300	55.000	SREF 4210
[15-011]	○	ARC 97-747 CAS38 B C M F V	.000	.000	16.300	55.000	LREF 14.440
[15-012]	○	ARC 97-747 CAS38 B C M F V	.000	.000	16.300	55.000	BREF 20.100
[15-013]	○	ARC 97-747 CAS38 B C M F V	.000	.000	16.300	55.000	YREF 32.000
[15-014]	○	ARC 97-747 CAS38 B C M F V	.000	.000	16.300	55.000	YREF 11.200
[15-015]	○	ARC 97-747 CAS38 B C M F V	.000	.000	16.300	55.000	SCALE 10.000



LIFT COEFFICIENT, CL

FIG. 10 SEALED ELEVON SPLIT EFFECTS

(M)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BDF LAP	SPODBRK	REFERENCE INFORMATION
(TEKD10)	ARC 97-747 DAS38 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210 SQ. FT.
(TEKD50)	ARC 97-747 DAS38 B C M F VI V	.000	.000	16.300	55.000	LREF 14.2440 IN.
(TEKD08)	ARC 97-747 DAS38 B C M F VI V	15.000	.000	16.300	55.000	BREF 28.1004 IN.
(TEKD19)	ARC 97-747 DAS38 B C M F VI V	15.000	.000	16.300	55.000	XMRP 32.5010 IN.
						YMRP 0.0000 IN.
						ZMRP 11.2500 IN.
						SCALE .0000

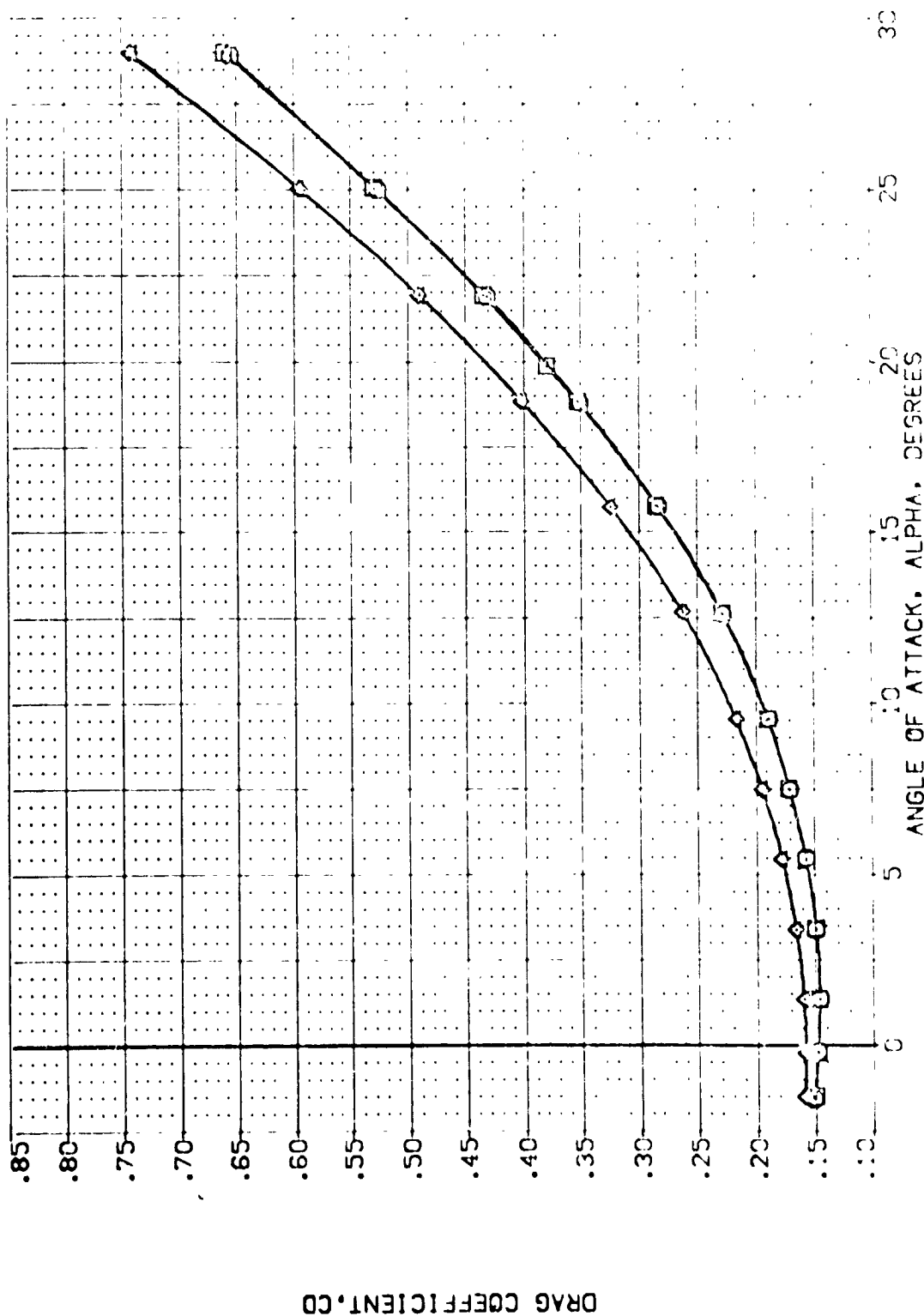


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON	RVAL	SEAL.EL	ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEK010)	ARC 97-747 C-503 B C M F V	V			.000	.000	16.300	55.000	SPEED 2.4213 SQ.FT.
(TEK050)	ARC 97-747 C-503 B C M F V	V			.000	.000	16.300	55.000	LREF 14.2142 IN.
(TEK073)	ARC 97-747 C-503 B C M F V	V			.000	.000	16.300	55.000	DRIF 23.1001 IN.
(TEK049)	ARC 97-747 C-503 B C M F V	V			.000	.000	16.300	55.000	XMRP 32.5510 IN.
									YMRP .0000 IN.
									ZMRP 11.2300 IN.
									SCALE .0000

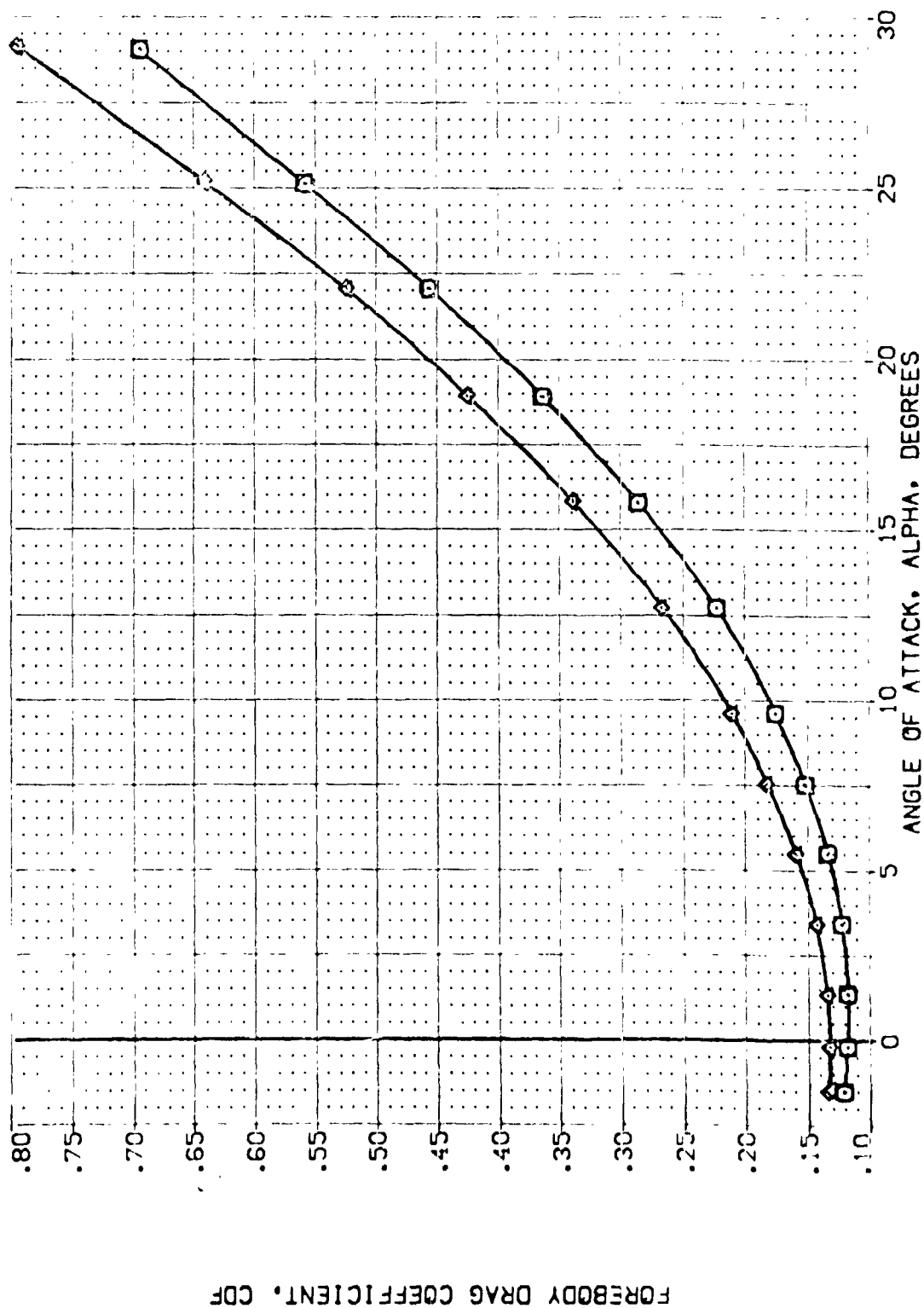


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	Y	NOM	RV/L	SEAL	ELEV	ALL/BN	BO/LAP	SPOBRK	REFERENCE INFORMATION
[TEP010]	ARC 97-747 BAS33 B C M F VI	V	NOM	RV/L	SEAL	.000	.000	16.300	55.000	SREF 2.4210
[TEP011]	ARC 97-747 BAS33 B C M F VI	V	NOM	RV/L	SEAL	.000	.000	16.300	55.000	LREF 14.2410
[TEP012]	ARC 97-747 BAS33 B C M F VI	V	NOM	RV/L	SEAL	.000	.000	16.300	55.000	BREF 78.1004
[TEP013]	ARC 97-747 BAS33 B C M F VI	V	NOM	RV/L	SEAL	.000	.000	16.300	55.000	YREF 97.5010
[TEP014]	ARC 97-747 BAS33 B C M F VI	V	NOM	RV/L	SEAL	.000	.000	16.300	55.000	ZREF 11.2510
[TEP015]	ARC 97-747 BAS33 B C M F VI	V	NOM	RV/L	SEAL	.000	.000	16.300	55.000	SCALE 11.0000

FOREBODY DRAG COEFFICIENT, CDF

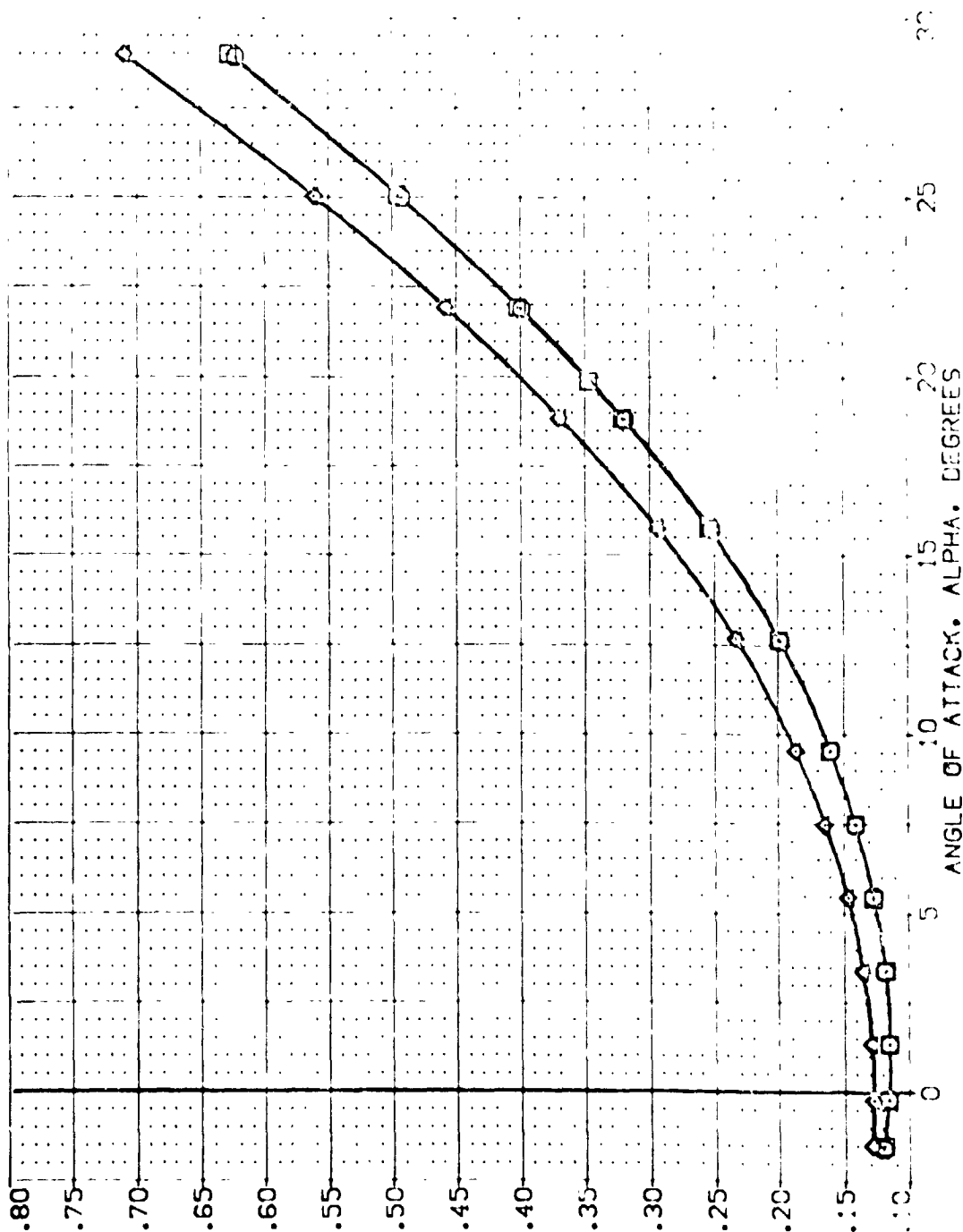


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B)MACH = 2.00

AXIAL FORCE COEFFICIENT, CA

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOI.	RVAL	SEAL.EL	ELEVON	AIRLON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEK010)	ARC 97-747 GAS38 B C M F VI V				.000	.000	16.300	55.000	SREF 2.4210
(TEK050)	ARC 97-747 GAS38 B C M F VI V				.000	.000	16.300	55.000	LREF 14.2440
(TEK000)	ARC 97-747 GAS38 B C M F VI V				.000	.000	16.300	55.000	BREF 23.1000
(TEK040)	ARC 97-747 GAS38 B C M F VI V				.000	.000	16.300	55.000	XMAT 32.0000
(TEK045)	ARC 97-747 GAS38 B C M F VI V				.000	.000	16.300	55.000	YMRP 11.7000
									ZMRP 11.7000
									SCALE .0500

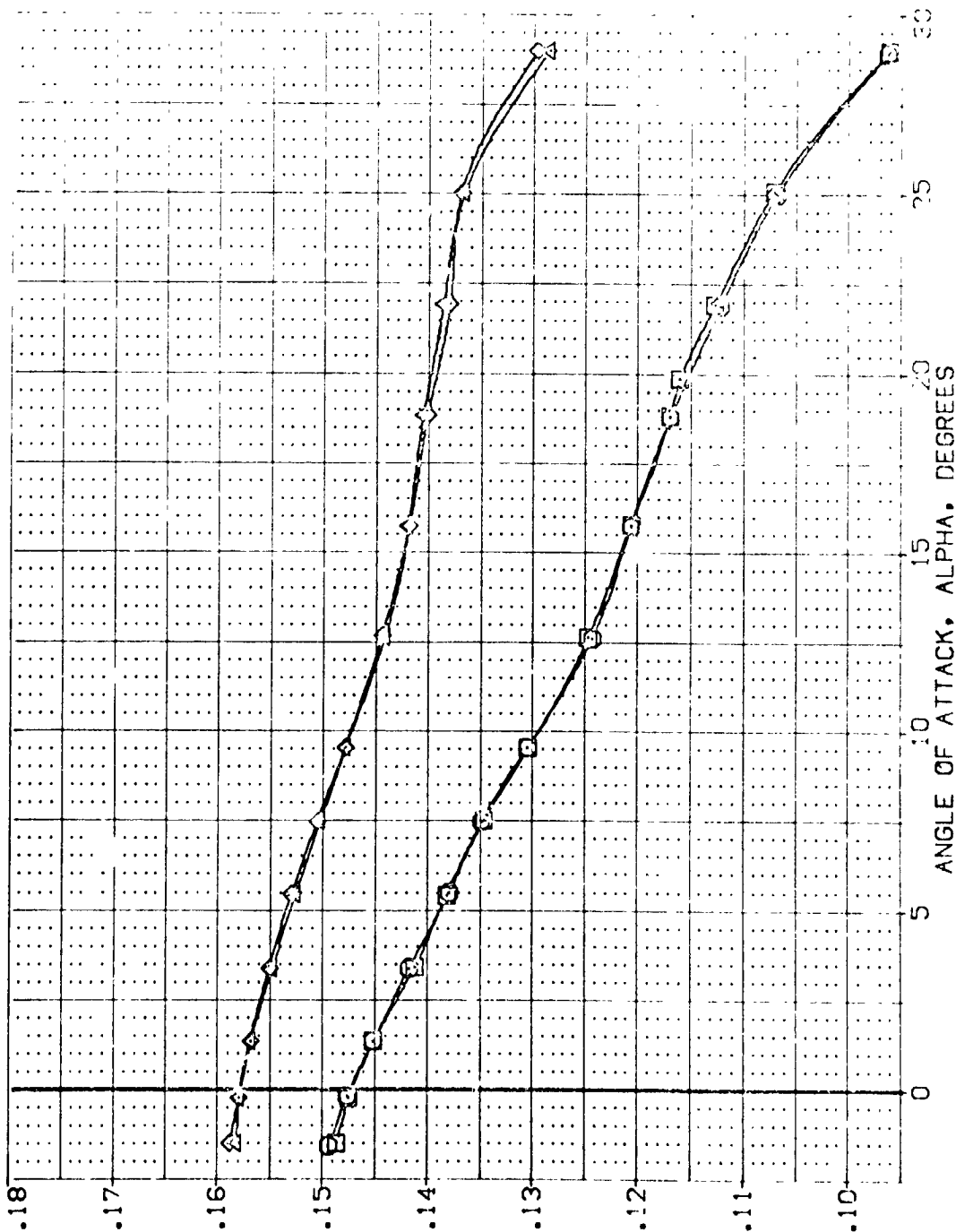
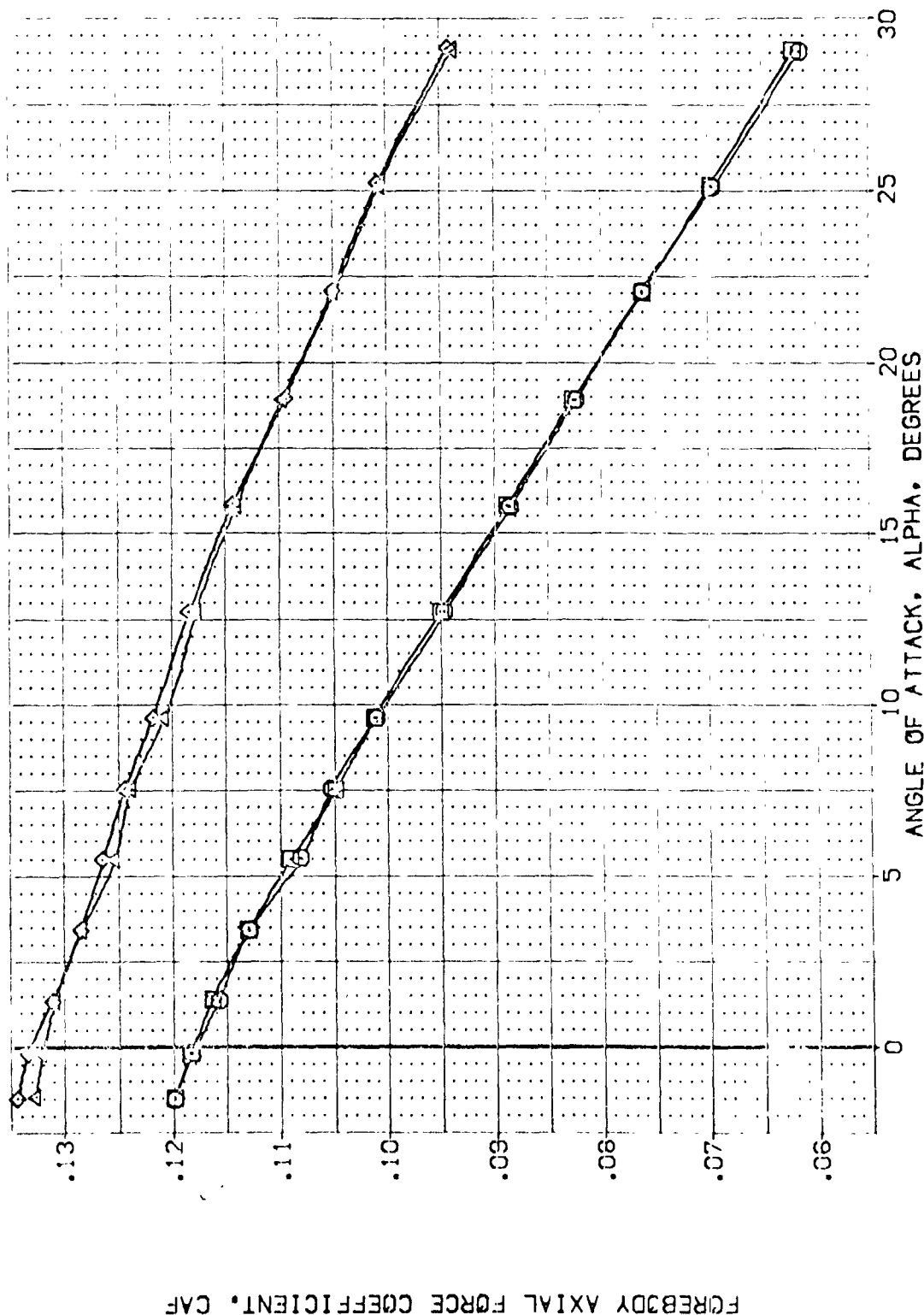


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOH	RVAL	SEAL EL	ELEVON	AIRLON	BOFLAP	SPDRK	REFERENCE INFORMATION
(1EPC010)	ARC 97-747 CA503 B C M F VI V	NOH	RVAL	SEAL EL	.000	.000	16.300	55.000	SREF 2.4210
(1EPC011)	ARC 97-747 CA503 B C M F VI V	NOH	RVAL	SEAL EL	.000	.000	16.300	55.000	LREF 14.2440
(1EPC012)	ARC 97-747 CA503 B C M F VI V	NOH	RVAL	SEAL EL	.000	.000	16.300	55.000	DREF 23.1004
(1EPC013)	ARC 97-747 CA503 B C M F VI V	NOH	RVAL	SEAL EL	15.000	.000	16.300	55.000	XREF 32.0019
(1EPC014)	ARC 97-747 CA503 B C M F VI V	NOH	RVAL	SEAL EL	15.000	.000	16.300	55.000	YREF .0000
(1EPC015)	ARC 97-747 CA503 B C M F VI V	NOH	RVAL	SEAL EL	15.000	.000	16.300	55.000	ZREF 11.2500
(1EPC016)	ARC 97-747 CA503 B C M F VI V	NOH	RVAL	SEAL EL	15.000	.000	16.300	55.000	SCALE .0000



F₁₀, 10 SEALED ELEVON SPLIT EFFECTS
 (C_{AF})_{ACH} = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	BOFLAP	SPOORX	REFERENCE INFORMATION
[TEK010]	ARC 97-747 OA538 B C M F VI V	.000	.000	16.300	55.000	SREF 2.421C
[TEK050]	ARC 97-747 OA538 B C M F VI V	.000	.000	16.300	55.000	LREF 14.214C
[TEK003]	ARC 97-747 OA538 B C M F VI V	15.000	.000	16.300	55.000	EREF 20.100C
[TEK043]	ARC 97-747 OA538 B C M F VI V	SEAL.EI	.000	16.300	55.000	XRMP 32.101C
						YMRP .000C
						ZMRP 11.250C
						SCALE .0000

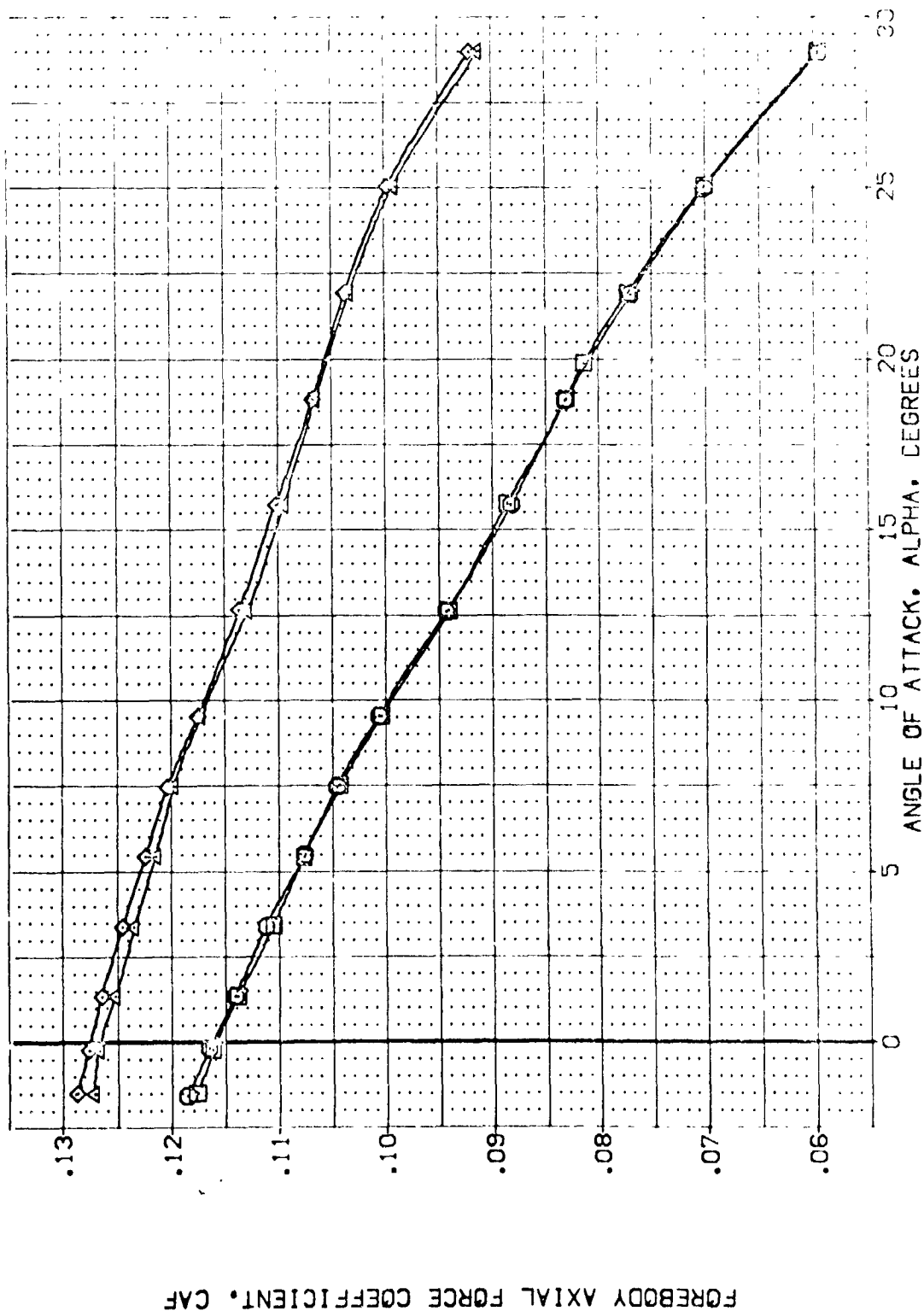


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOI.	RV/L	SEAL.EL	ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
[1E1C00]	ARC 97-747 CA503 B C M F VI V	NOI.	RV/L	SEAL.EL	.000	.000	16.300	55.000	SREF 2.4210
[1E1C00]	ARC 97-747 CA503 B C M F VI V	NOI.	RV/L	SEAL.EL	.000	.000	16.300	55.000	LRFF 14.2410
[1E1C00]	ARC 97-747 CA503 B C M F VI V	NOI.	RV/L	SEAL.EL	.000	.000	16.300	55.000	BRFF 20.1004
[1E1C00]	ARC 97-747 CA503 B C M F VI V	NOI.	RV/L	SEAL.EL	.000	.000	16.300	55.000	VMRP 22.0010
[1E1C00]	ARC 97-747 CA503 B C M F VI V	NOI.	RV/L	SEAL.EL	.000	.000	16.300	55.000	ZMRP 11.0000
									SCALE 11.0000

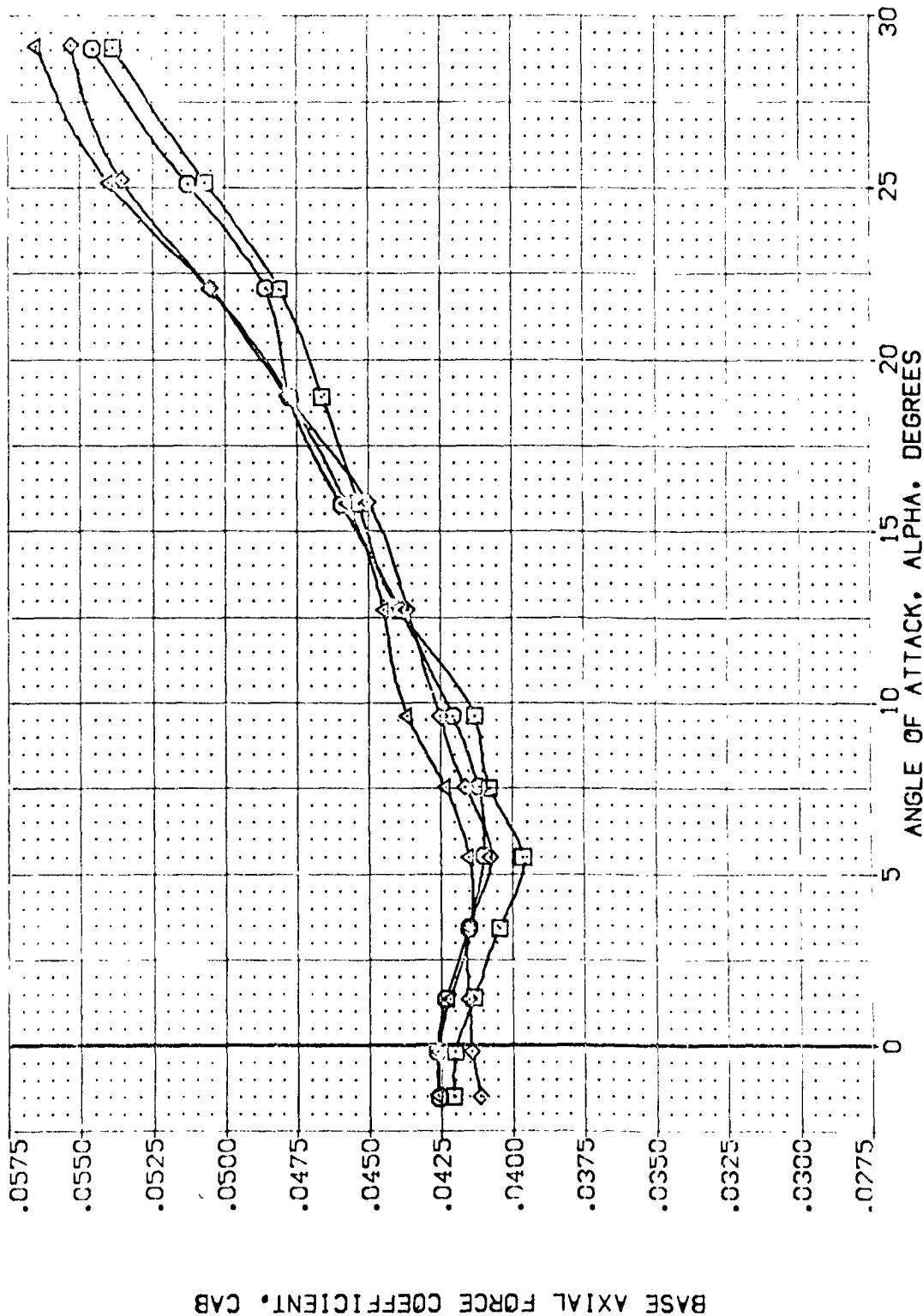


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOI.	RV/L	SEAL.EL	ELEVON	AIRLON	BOFLAP	SPOBRK	REFERENCE INFORMATION
[TEK010]	ARC 97-747 OAS3B B C M F VI V	NOI.	RV/L	SEAL.EL	.000	.000	16.300	55.000	SREF 2.4210
[TEK050]	ARC 97-747 OAS3B B C M F VI V	NOI.	RV/L	SEAL.EL	.000	.000	16.300	55.000	LREF 14.2440
[TEK060]	ARC 97-747 OAS3B B C M F VI V	NOI.	RV/L	SEAL.EL	.000	.000	16.300	55.000	SPREF 28.1000
[TEK049]	ARC 97-747 OAS3B B C M F VI V	NOI.	RV/L	SEAL.EL	15.000	.000	16.300	55.000	XMREF 32.0010
					15.000	.000			YMREF .0000
									ZMREF 11.2700
									SCALE .0000

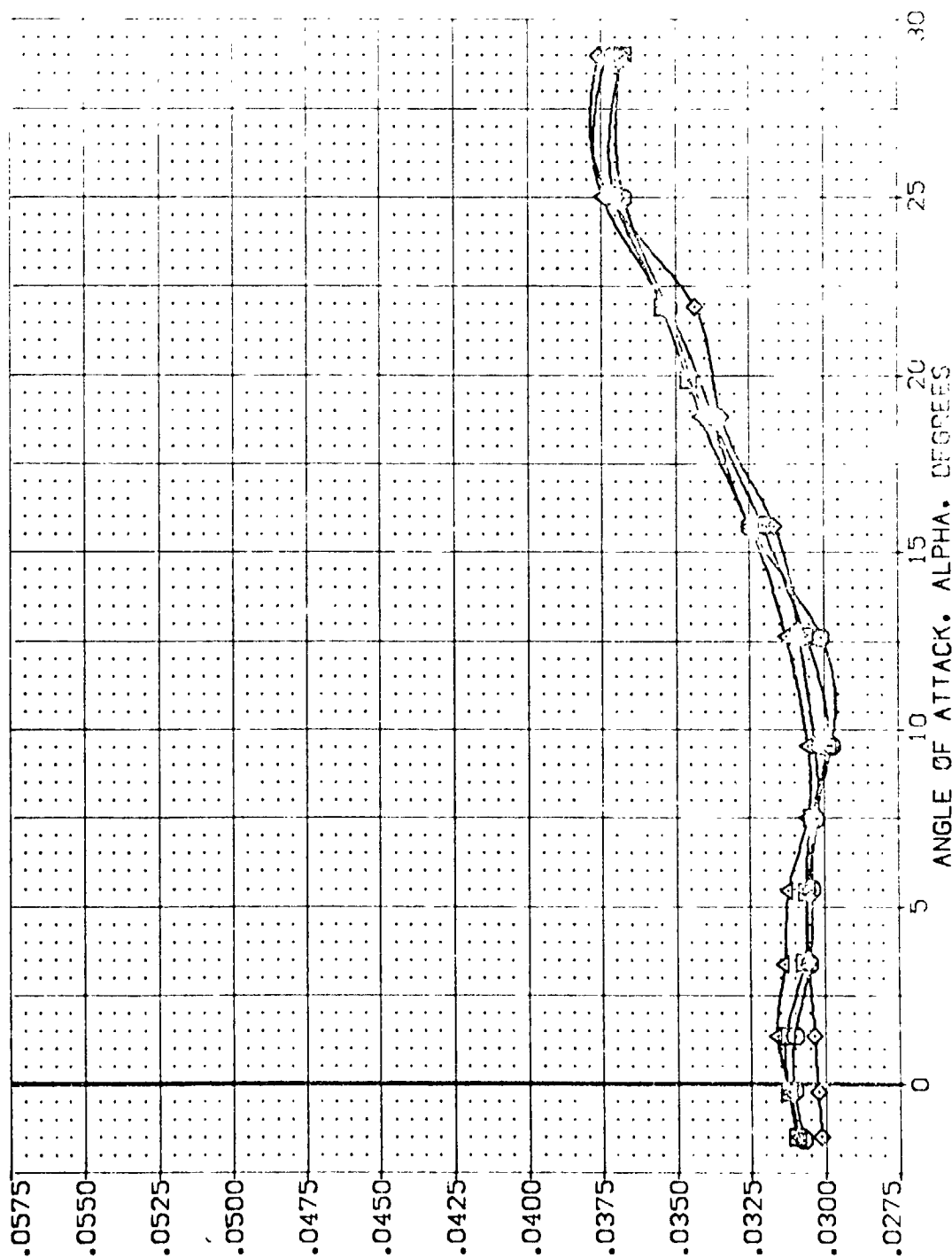


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B)MACH = 2.00

NORMAL FORCE COEFFICIENT, CN

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	ATLON	BOFLAP	SPOBRK	REFERENCE INFORMATION
[TEK010]	ARC 97-747 DAS33 B C M F V1	.000	.000	16.300	55.000	SREF 2.4210
[TEK020]	ARC 97-747 DAS33 B C M F V1	.000	.000	16.300	55.000	LREF 14.2340
[TEK030]	ARC 97-747 DAS33 B C M F V1	.000	.000	16.300	55.000	BREF 28.1604
[TEK040]	ARC 97-747 DAS33 B C M F V1	.000	.000	16.300	55.000	XMRP 32.0010
[TEK050]	ARC 97-747 DAS33 B C M F V1	.000	.000	16.300	55.000	YMRP 07.30
[TEK060]	ARC 97-747 DAS33 B C M F V1	.000	.000	16.300	55.000	ZMRP 11.2500
[TEK070]	ARC 97-747 DAS33 B C M F V1	.000	.000	16.300	55.000	SCALE 11.0000

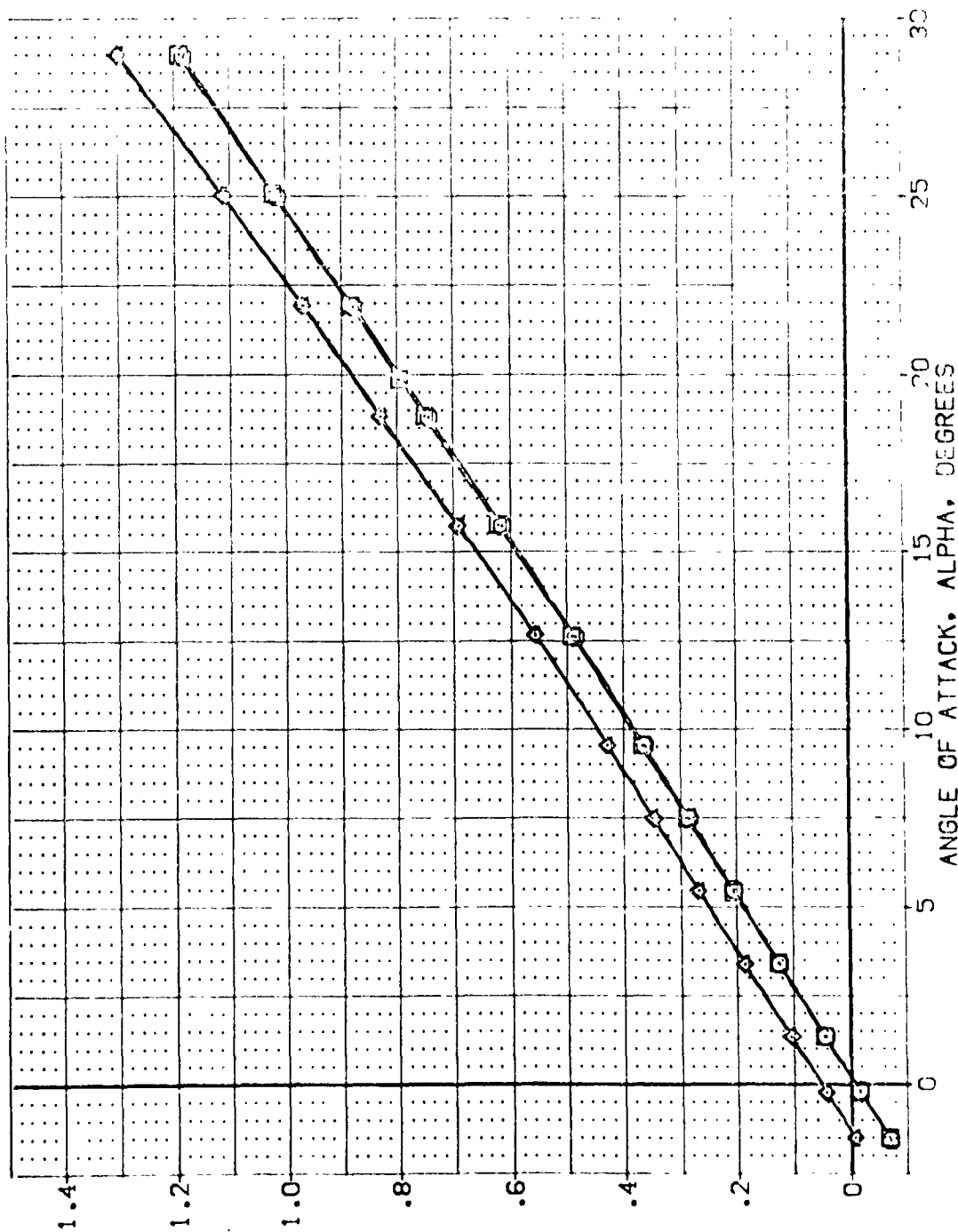


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPDBRK	REFERENCE INFORMATION
(TEK010)	ARC 97-747 C-533 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210 SC.FT.
(TEK020)	ARC 97-747 C-533 B C M F VI V	.000	.000	16.300	55.000	LREF 14.2440 IN.
(TEK030)	ARC 97-747 C-533 B C M F VI V	.000	.000	16.300	55.000	BREF 20.1004 IN.
(TEK040)	ARC 97-747 C-533 B C M F VI V	.000	.000	16.300	55.000	VMRP 32.2010 IN.
(TEK045)	ARC 97-747 C-533 B C M F VI V	.000	.000	16.300	55.000	VMRP 32.2010 IN.
						ZMRP 11.2500 IN.
						SCALE

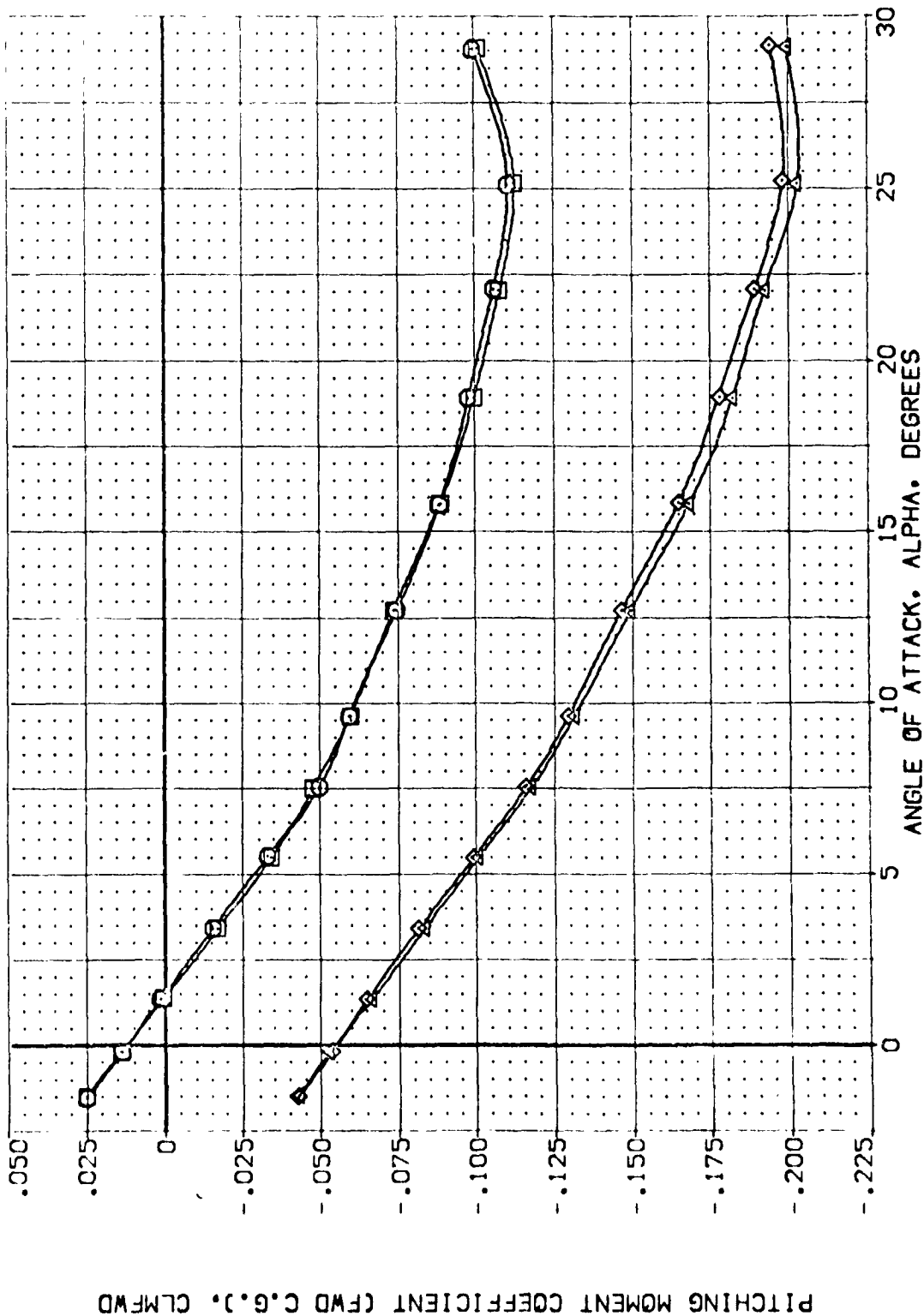


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRN	REFERENCE INFORMATION
(TEK010)	ARC 97-747 CAS38 B C M F V I V	.000	.000	16.300	55.000	SREF 2.4210
(TEK050)	ARC 97-747 CAS38 B C M F V I V	.000	.000	16.300	55.000	REF 14.2400
(TEK008)	ARC 97-747 CAS38 B C M F V I V	15.000	.000	16.300	55.000	BRP 70.1000
(TEK019)	ARC 97-747 CAS38 B C M F V I V	15.000	.000	16.300	55.000	AMP 32.0010
						YMR 11.2000
						SCALE 11.2000

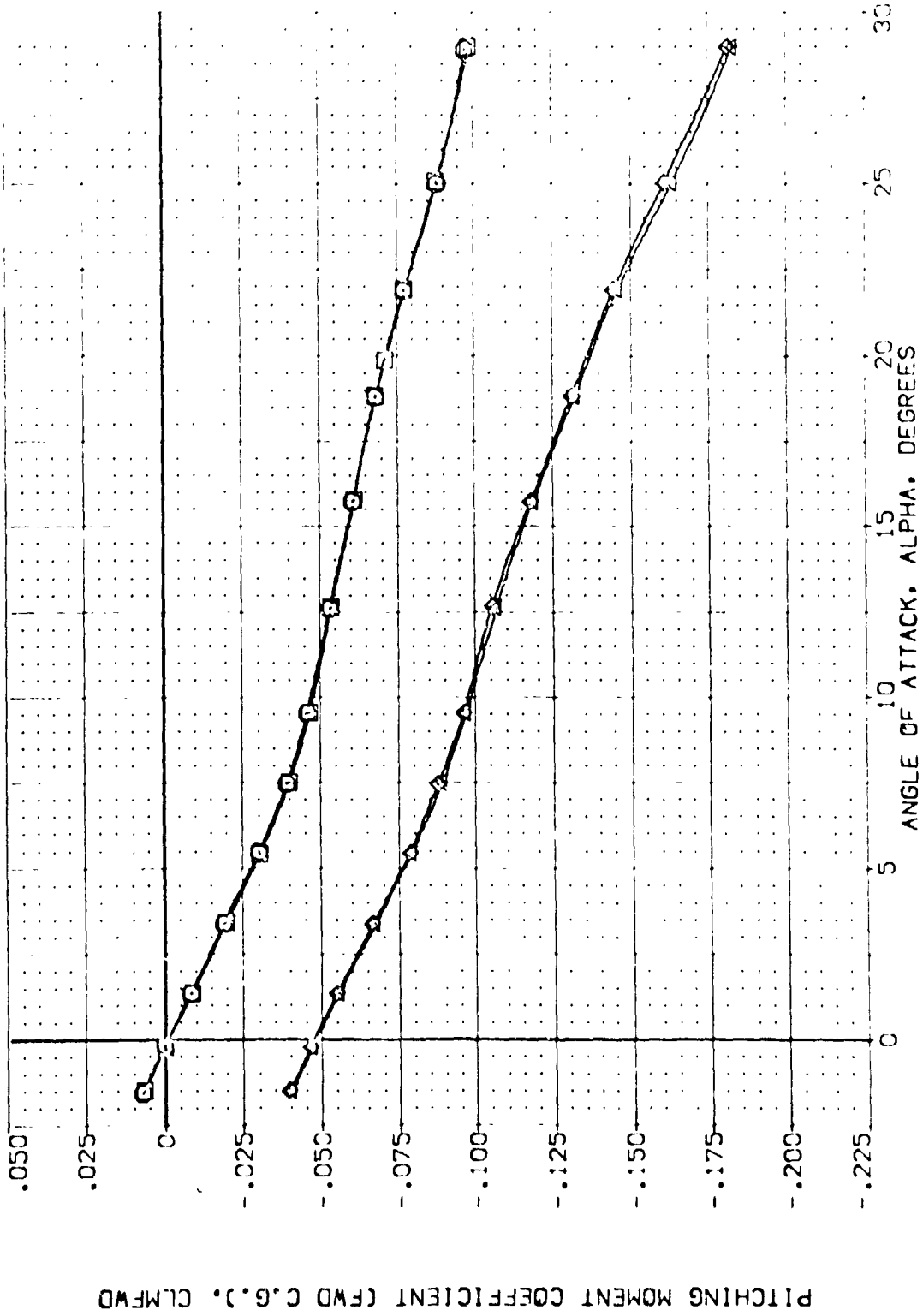


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOTES	R/V/L	SEAL EL	ELEVON	AIRLON	BOFLAP	SPOBRN	REFERENCE INFORMATION
Q	ARC 97-747 C4523 B C H F V	V	15.000	15.000	.000	.000	16.300	55.000	SREF 7.4210
X	ARC 97-747 C4523 B C H F V	V	15.000	15.000	.000	.000	16.300	55.000	UREF 14.2460
Z	ARC 97-747 C4523 B C H F V	V	15.000	15.000	.000	.000	16.300	55.000	SCREF 28.1000
	ARC 97-747 C4523 B C H F V	V	15.000	15.000	.000	.000	16.300	55.000	YREF 32.1000
									ZREF 11.0000
									SCALE 1.0000

PITCHING MOMENT COEFFICIENT (CFT C.G.), CLMAFT

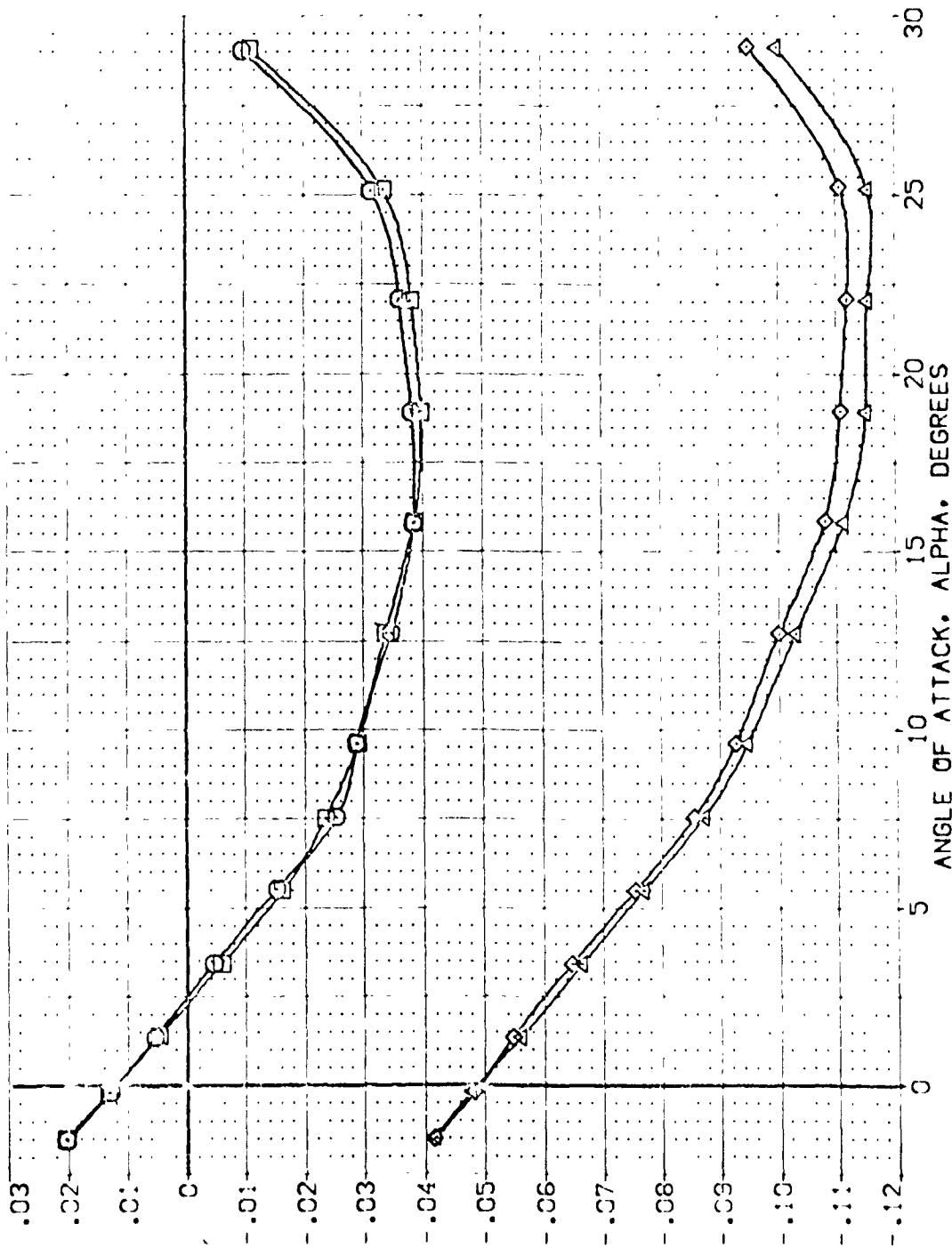


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(MACH = 1.60)

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOTES	RV/L	SEAL.EL	ELEVON	AIRLON	BOFLAP	SPDRK	REFERENCE INFORMATION
(TEK010)	ARC 97-747 DA538 B C M F V1 V		NOT	RV/L	.000	.000	16.300	55.000	SREF 2.4210
(TEK050)	ARC 97-747 DA538 B C M F V1 V		NOT	RV/L	.000	.000	16.300	55.000	LREF 14.2440
(TEK008)	ARC 97-747 DA538 B C M F V1 V		NOT	RV/L	.000	.000	16.300	55.000	GRF 79.1000
(TEK049)	ARC 97-747 DA538 B C M F V1 V		NOT	RV/L	.000	.000	16.300	55.000	YMRP 22.3010
									ZMRP .0000
									SCALE 11.2000

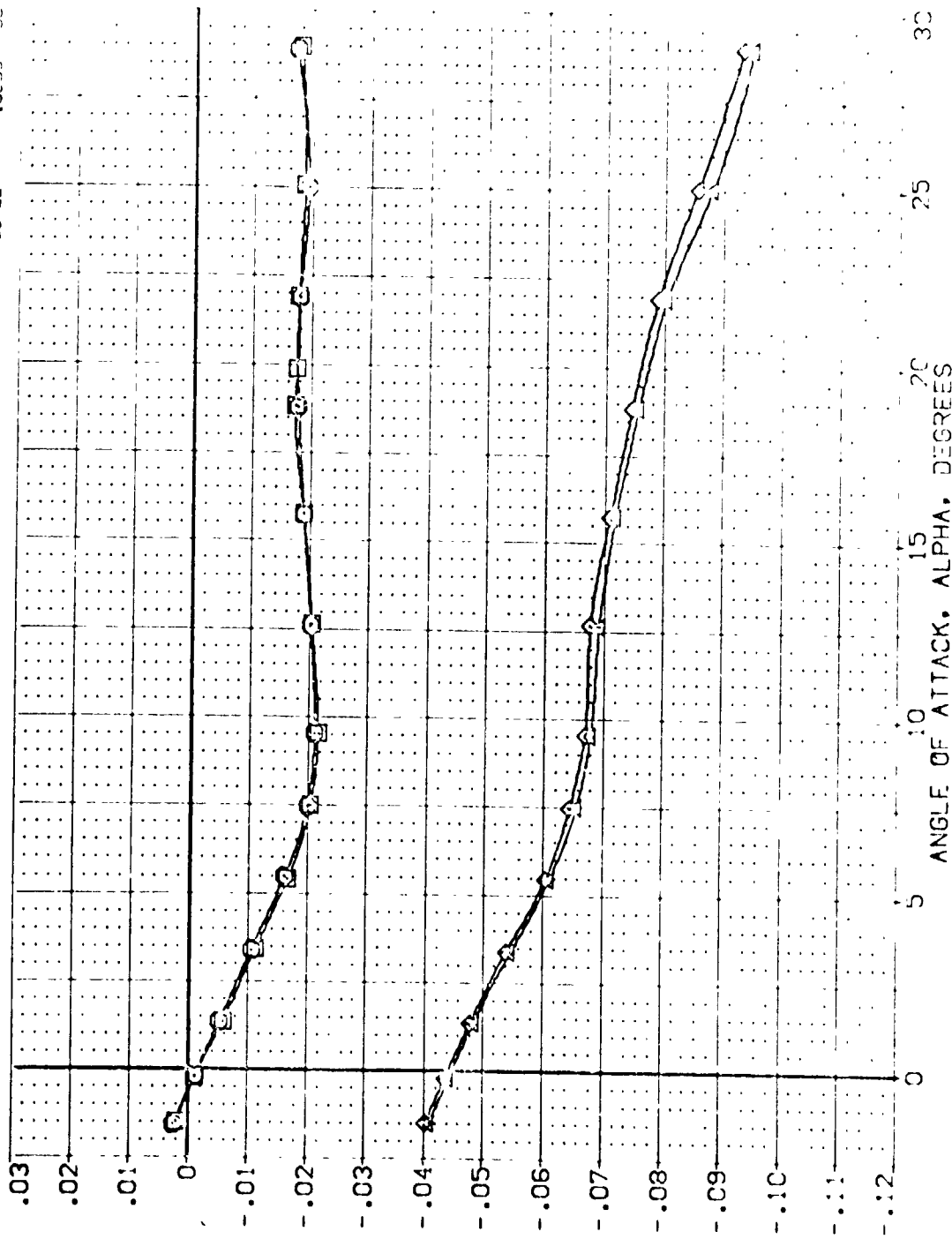


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NO.	RV/L	SEAL EL	ELEVON	AIRLON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(1)P0101	ARC 97-747 CAS28 B C M F VI V	NO.1	RV/L	SEAL EL	.000	.000	16.300	55.000	SREF 2.4210 50. FT.
(1)P0102	ARC 97-747 CAS28 B C M F VI V	NO.2	RV/L	SEAL EL	.000	.000	16.300	55.000	UPREF 14.2440 1. N.
(1)P0103	ARC 97-747 CAS28 B C M F VI V	NO.3	RV/L	SEAL EL	.000	.000	16.300	55.000	SPREF 22.1001 1. N.
(1)P0104	ARC 97-747 CAS28 B C M F VI V	NO.4	RV/L	SEAL EL	.000	.000	16.300	55.000	XPREF 32.1010 1. N.
(1)P0105	ARC 97-747 CAS28 B C M F VI V	NO.5	RV/L	SEAL EL	.000	.000	16.300	55.000	YMPREF 11.0000 1. N.
(1)P0106	ARC 97-747 CAS28 B C M F VI V	NO.6	RV/L	SEAL EL	.000	.000	16.300	55.000	SCALE 11.0000 1. N.

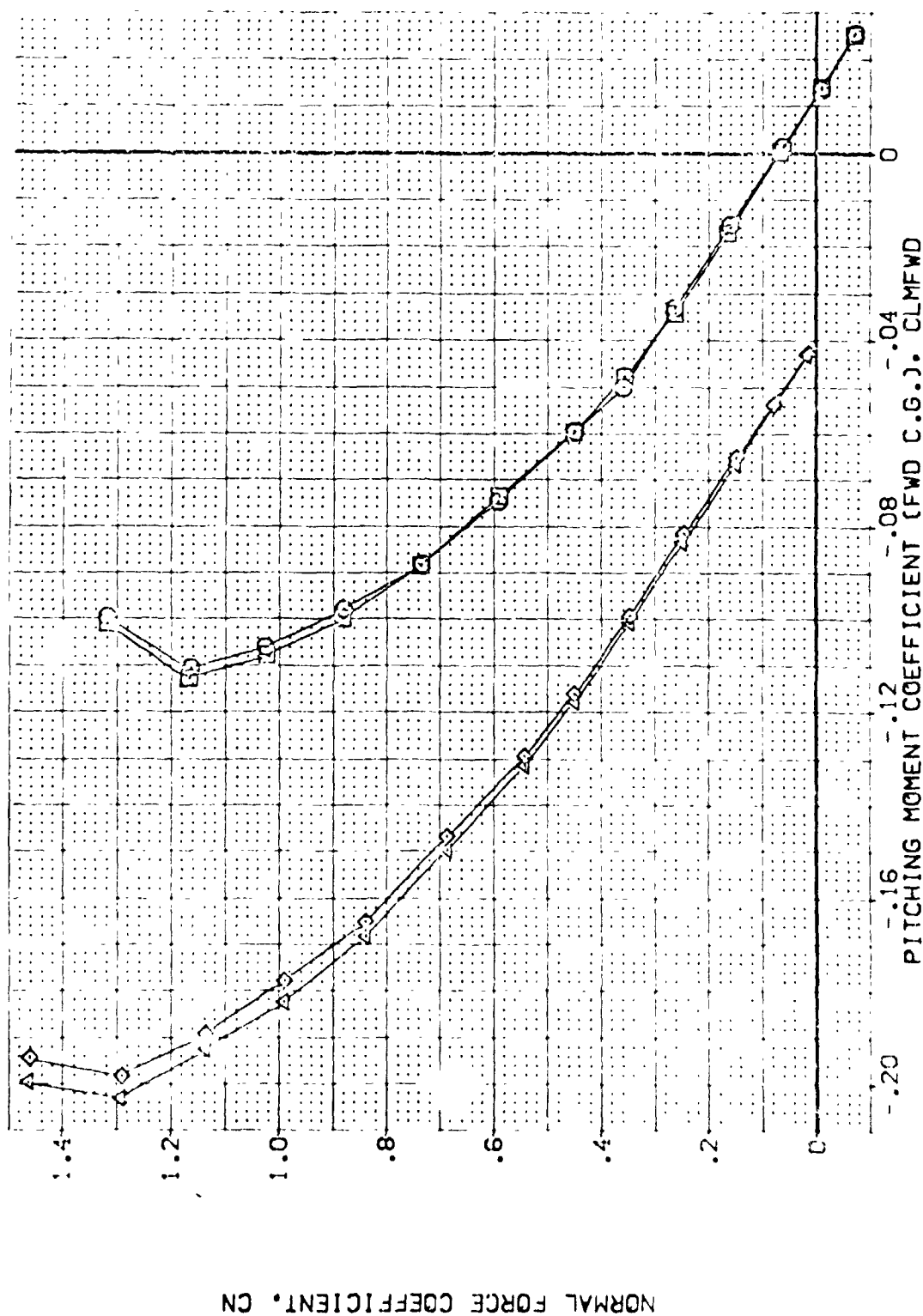


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	REF. NO.	RV/L SEAL EL	ELEVON	AIRLON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEPC010)	ARC 97-747 CAS33 B C M F VI V	1	0.000	0.000	0.000	16.300	55.000	SREF 2.4210
(TEPC003)	ARC 97-747 CAS33 B C M F VI V	2	0.000	0.000	0.000	16.300	55.000	LREF 14.2240
(TEPC003)	ARC 97-747 CAS33 B C M F VI V	3	0.000	0.000	0.000	16.300	55.000	EREF 28.1000
(TEPC049)	ARC 97-747 CAS33 B C M F VI V	4	0.000	0.000	0.000	16.300	55.000	XREF 32.0000
								YREF 0.0000
								ZREF 11.2500
								SCALE 10.000

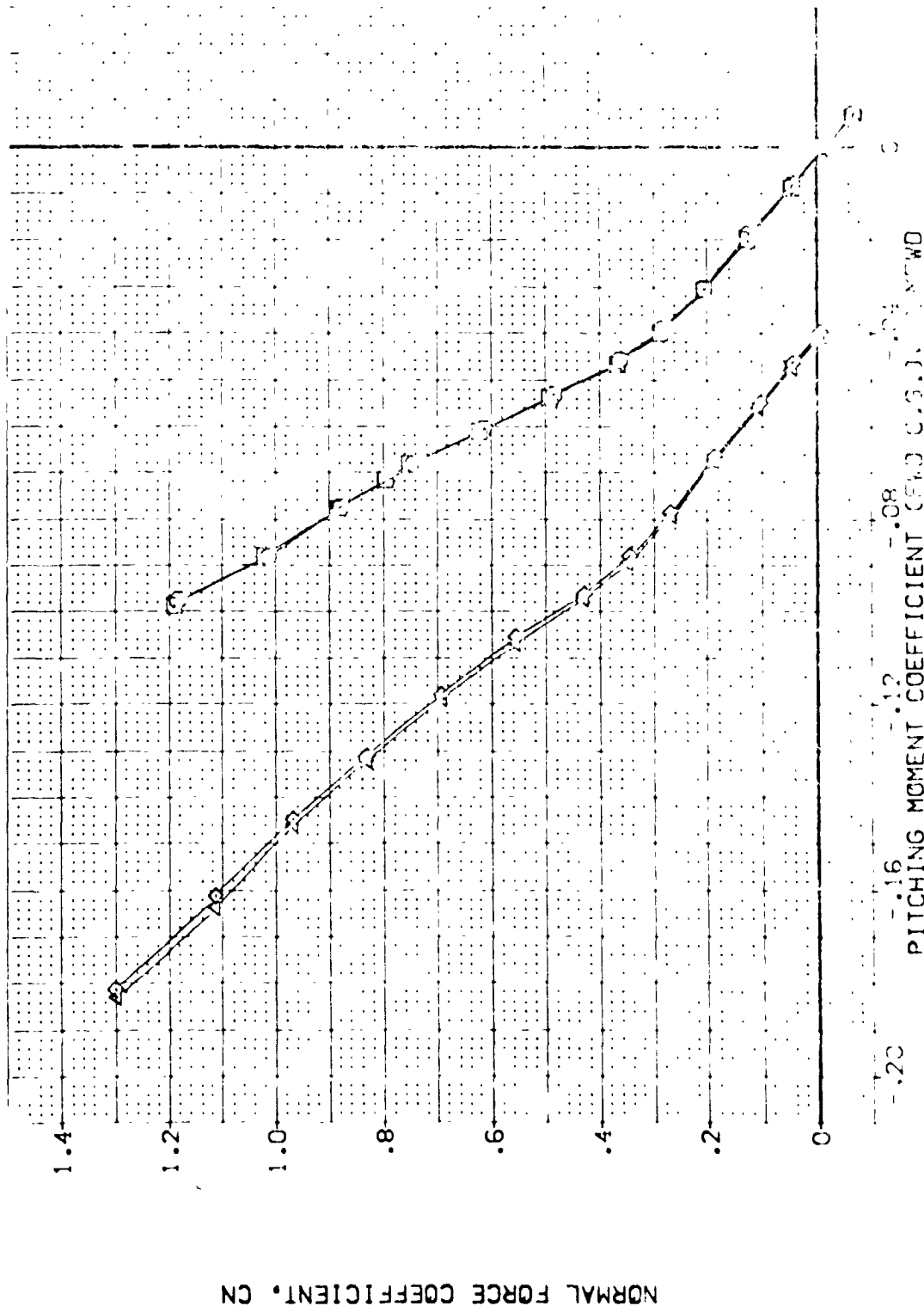


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON.	RAVL	SEAL.EL	ELEVON	AILERON	BOFLAP	SPOON	REFERENCE INFORMATION
(TEC010)	ARC 97-747 DAS33 B C M F V	V			.000	.000	16.300	55.000	SREF 2.4210
(TEC050)	ARC 97-747 DAS33 B C M F V	V			.000	.000	16.300	55.000	LRFF 14.2410
(TEC003)	ARC 97-747 DAS33 B C M F V	V			.000	.000	16.300	55.000	LRFF 28.1004
(TEC049)	ARC 97-747 DAS33 B C M F V	V			.000	.000	16.300	55.000	LRFF 32.1000
									YREF .0000
									ZREF .0000
									SCALE 11.2000
									SCALE

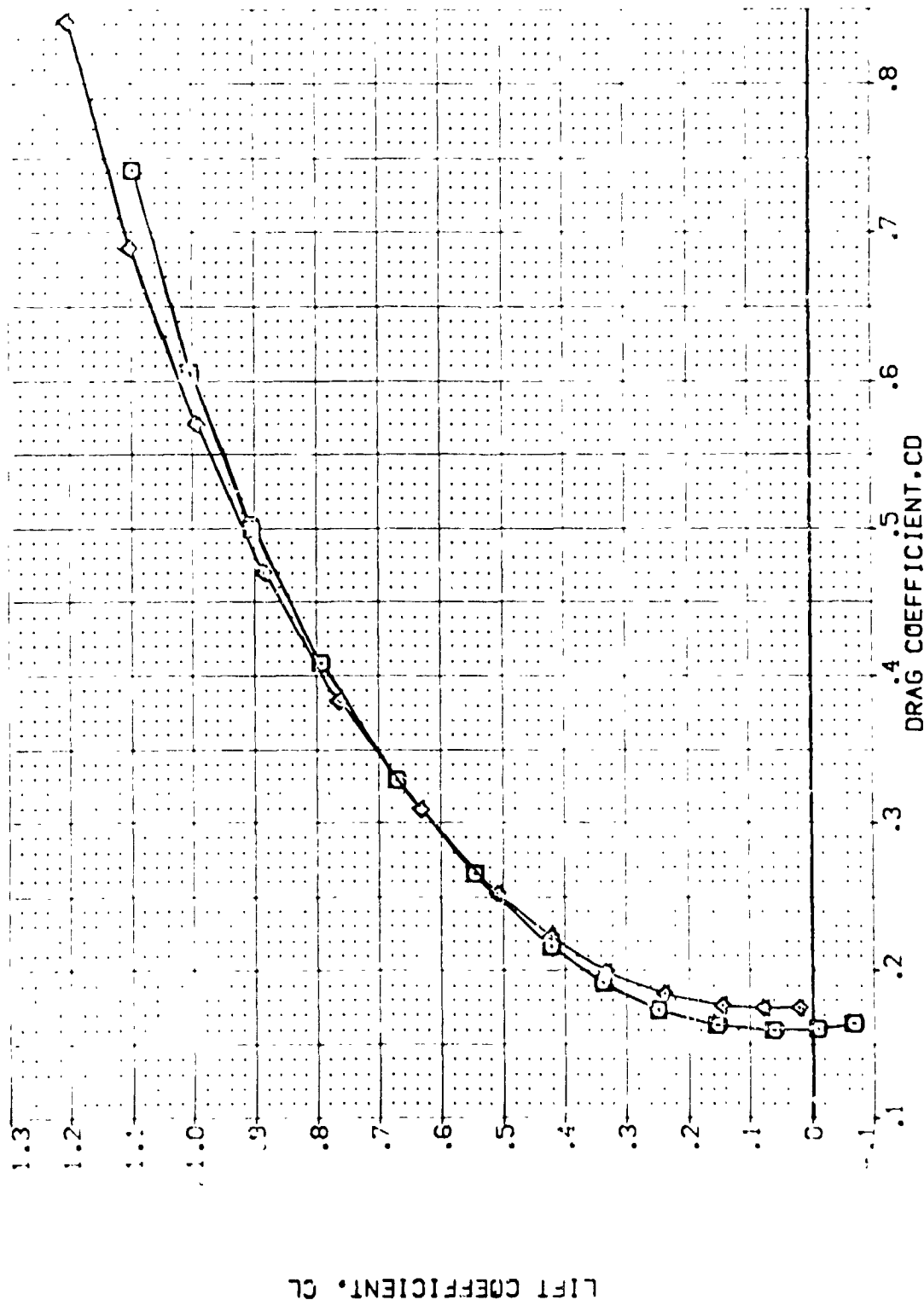


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	BOFLAP	SPOBRK	REFERENCE INFORMATION
[TEK010]	ARC 97-747 0A533 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210
[TEK050]	ARC 97-747 0A533 B C M F VI V	.000	.000	16.300	55.000	LREF 14.2450
[TEK060]	ARC 97-747 0A533 B C M F VI V	.000	.000	16.300	55.000	BREF 29.1001
[TEK049]	ARC 97-747 0A533 B C M F VI V	.000	.000	16.300	55.000	XMREF 52.2010
						YMRP .0000
						ZMRP 11.2330
						SCALE .0000

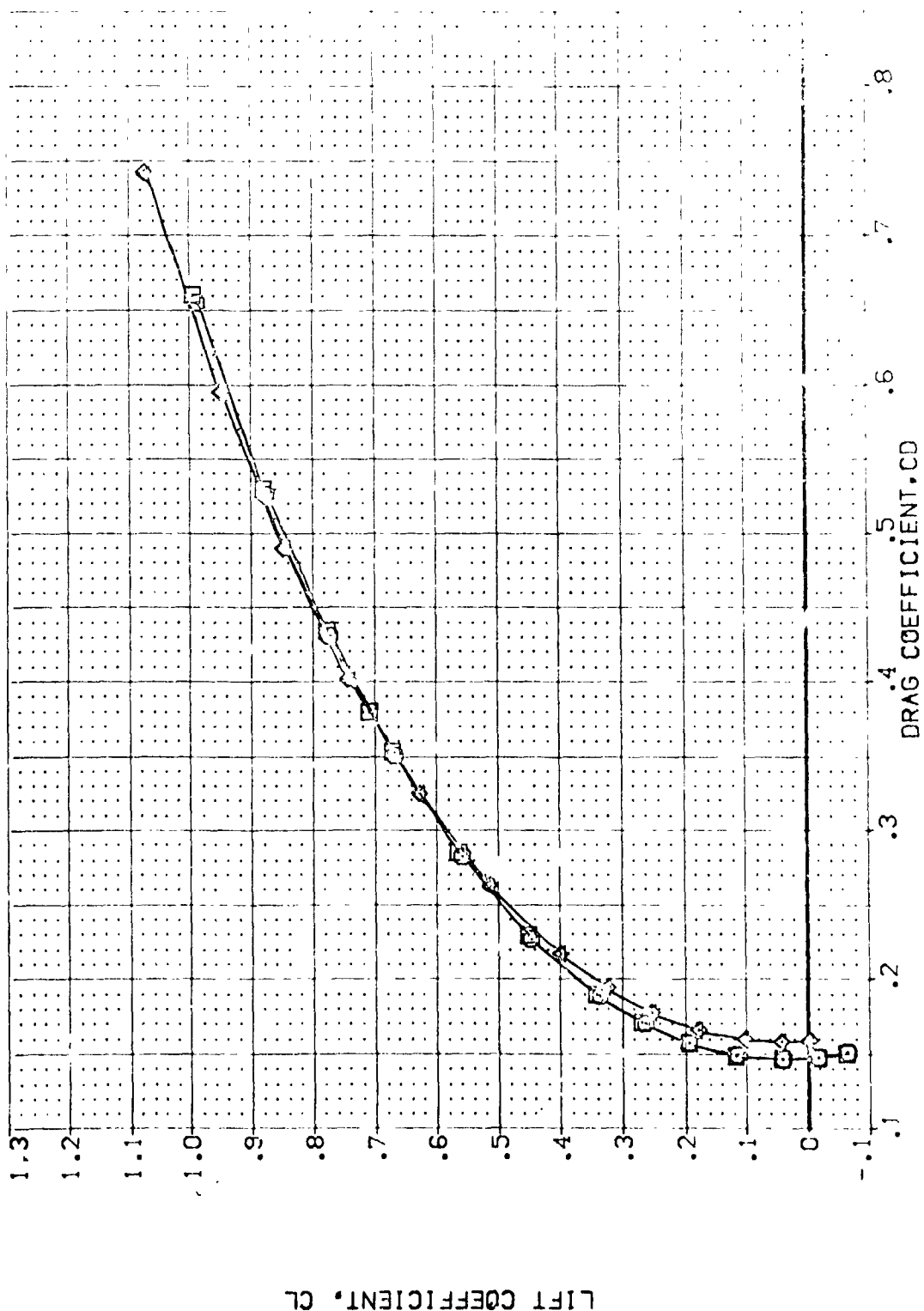


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOM.	RV/L	SEAL.EL	ELEVON	AIRLON	BOLAP	SPDRBK	REFERENCE INFORMATION
[1] [X010]	ARC 97-747 GAS33 B C M F VI	V			.000	.000	16.300	55.000	SREF 2.4210
[2] [X050]	ARC 97-747 GAS33 B C M F VI	V			.000	.000	16.300	55.000	LRCE 14.2440
[3] [X060]	ARC 97-747 GAS33 B C M F VI	V			.000	.000	16.300	55.000	BRCE 20.1601
[4] [X070]	ARC 97-747 GAS33 B C M F VI	V			.000	.000	16.300	55.000	XRCE 52.1600
[5] [X080]	ARC 97-747 GAS33 B C M F VI	V			.000	.000	16.300	55.000	YRCE 11.2500
[6] [X090]	ARC 97-747 GAS33 B C M F VI	V			.000	.000	16.300	55.000	ZRCE 11.2500
									SCALE .0300

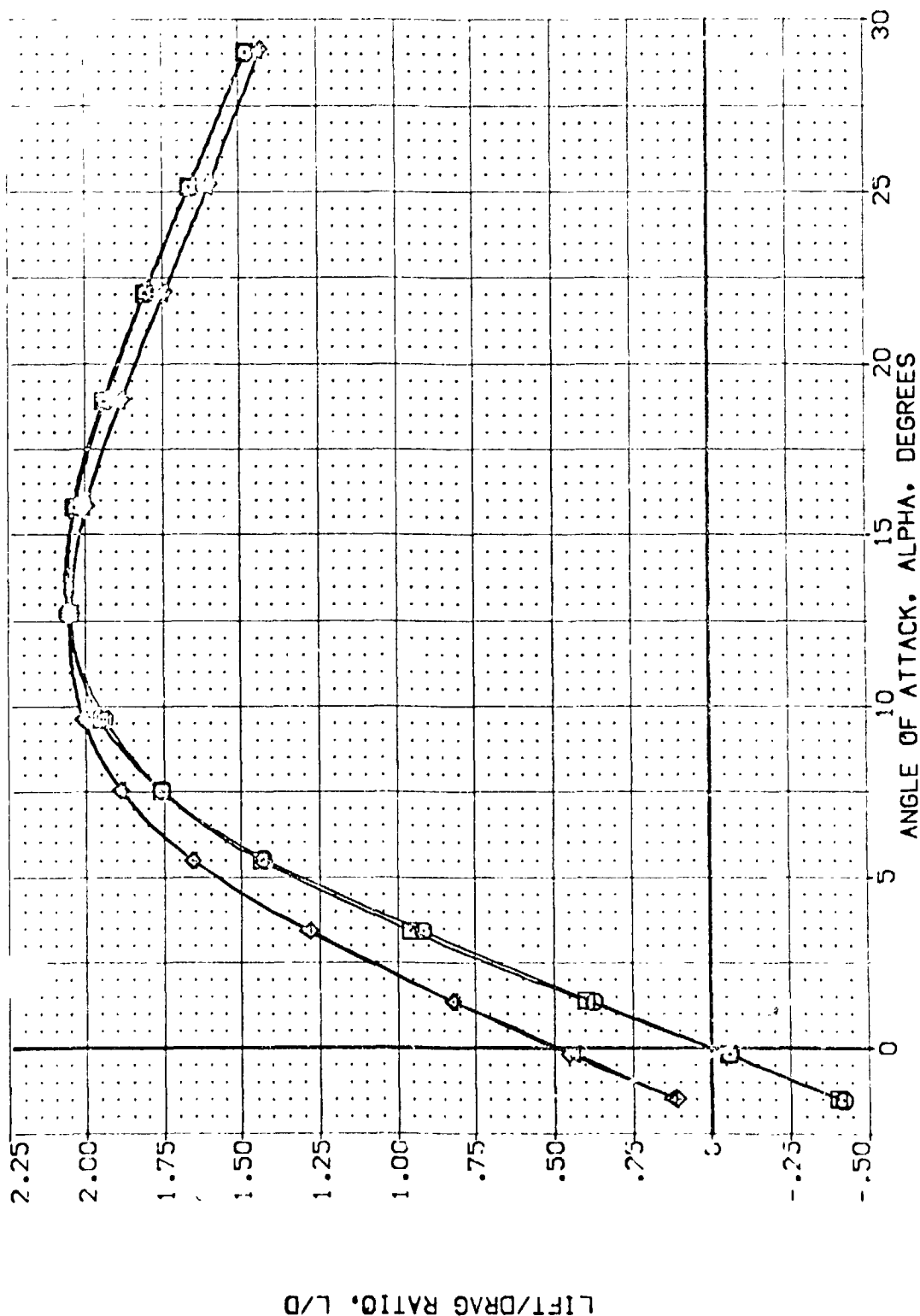


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILLON	EDFLAP	SPOONK	REFERENCE INFORMATION
(TEP010)	ARC 97-747 OAS33 B C M F V1 V	.000	.000	16.000	55.000	SREF 2.4210
(TEP050)	ARC 97-747 OAS33 B C M F V1 V	.000	.000	16.000	55.000	LREF 14.2410
(TEP003)	ARC 97-747 OAS33 B C M F V1 V	.000	.000	16.000	55.000	BREF 23.1000
(TEP049)	ARC 97-747 OAS33 B C M F V1 V	.000	.000	16.000	55.000	XMREF 32.0000
						ZMREF 11.0000
						SCALE .0000

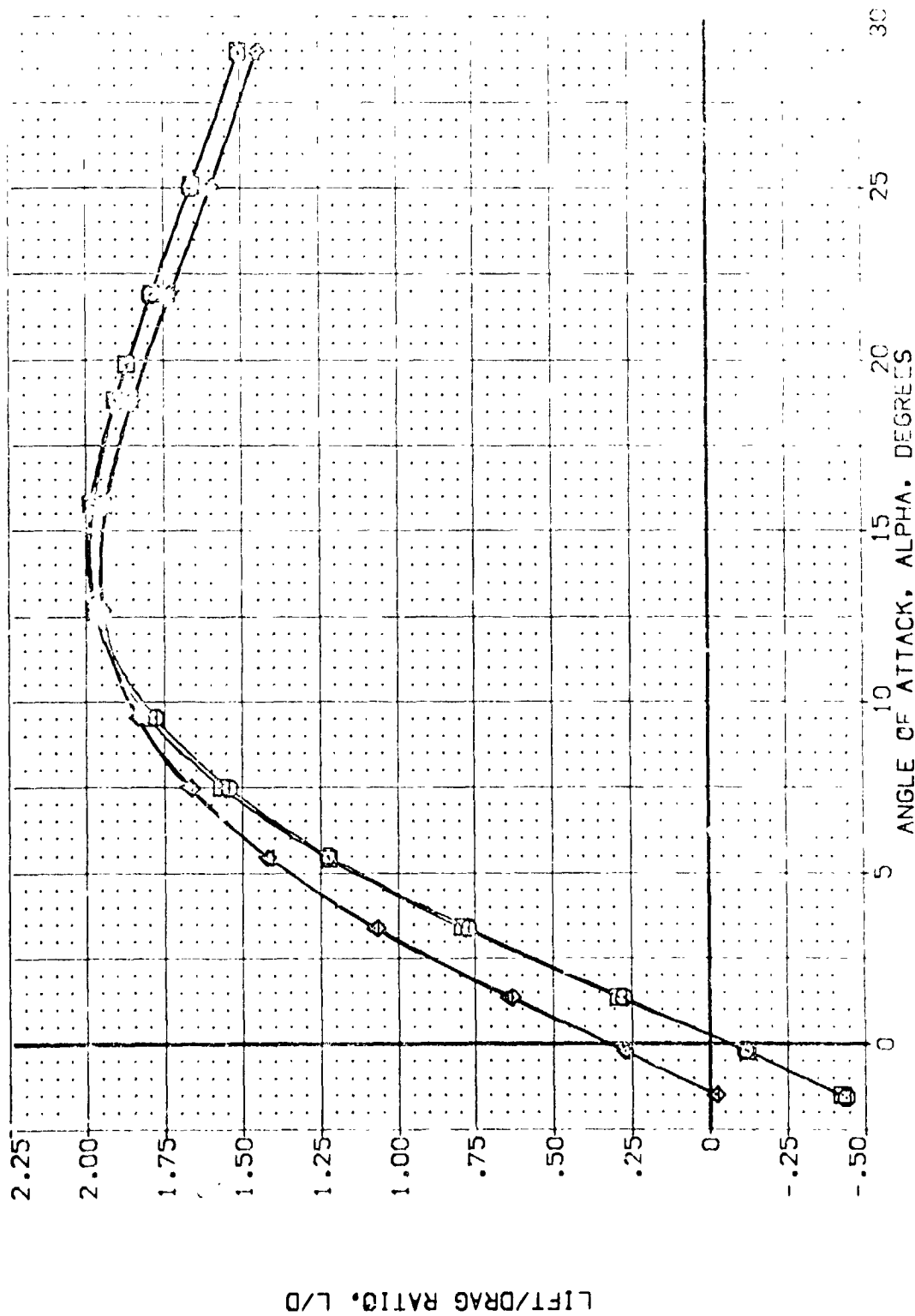


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOM.	RV/L	SCAL.EL	ELEVON	AIRLON	BDFLAP	SPOBRK	REFERENCE INFORMATION
[AEK010]	ARC 97-747 CAS33 B C M F VI	V			.000	.000	16.300	55.000	SREF 2.4210 SQ.FT.
[AEK050]	ARC 97-747 CAS33 B C M F VI	V			.000	.000	16.300	55.000	LBREF 14.7440 IN.
[AEK000]	ARC 97-747 CAS33 B C M F VI	V			15.000	.000	16.300	55.000	DBREF 23.1600 IN.
[AEK049]	ARC 97-747 CAS33 B C M F VI	V			15.000	.000	16.300	55.000	XBREF 32.0000 IN.
									YMRP .0000 IN.
									ZMRP 11.2500 IN.
									SCALE .0100

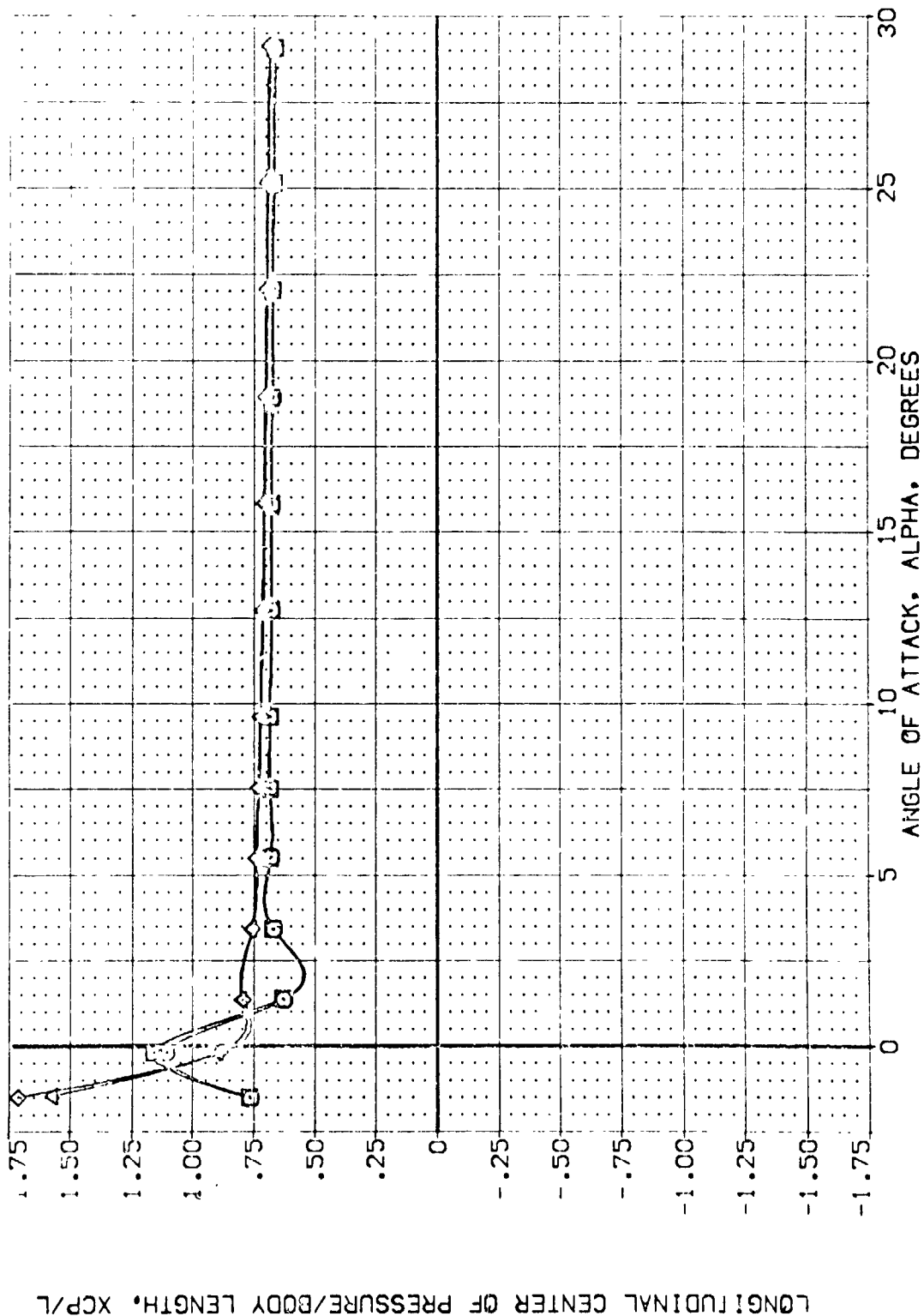


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NDM	RV/L	SEAL.EL	ELEVON	AIRLON	BOFLAP	SPOBRK	REFERENCE INFORMATION
[AEK010]	ARC 97-747 OAS38 B C M F VI V	NDM	RV/L	SEAL.EL	.000	.000	16.300	55.000	SREF 2.4210 10.171
[AEK050]	ARC 97-747 OAS38 B C M F VI V	NDM	RV/L	SEAL.EL	.000	.000	16.300	55.000	LREF 14.2400 10.171
[AEK060]	ARC 97-747 OAS38 B C M F VI V	NDM	RV/L	SEAL.EL	.000	.000	16.300	55.000	BRF 20.1000 10.171
[AEK049]	ARC 97-747 OAS38 B C M F VI V	NDM	RV/L	SEAL.EL	15.000	.000	16.300	55.000	YREF 32.4210 10.171
									ZREF 11.4210 10.171
									SCALE .0010

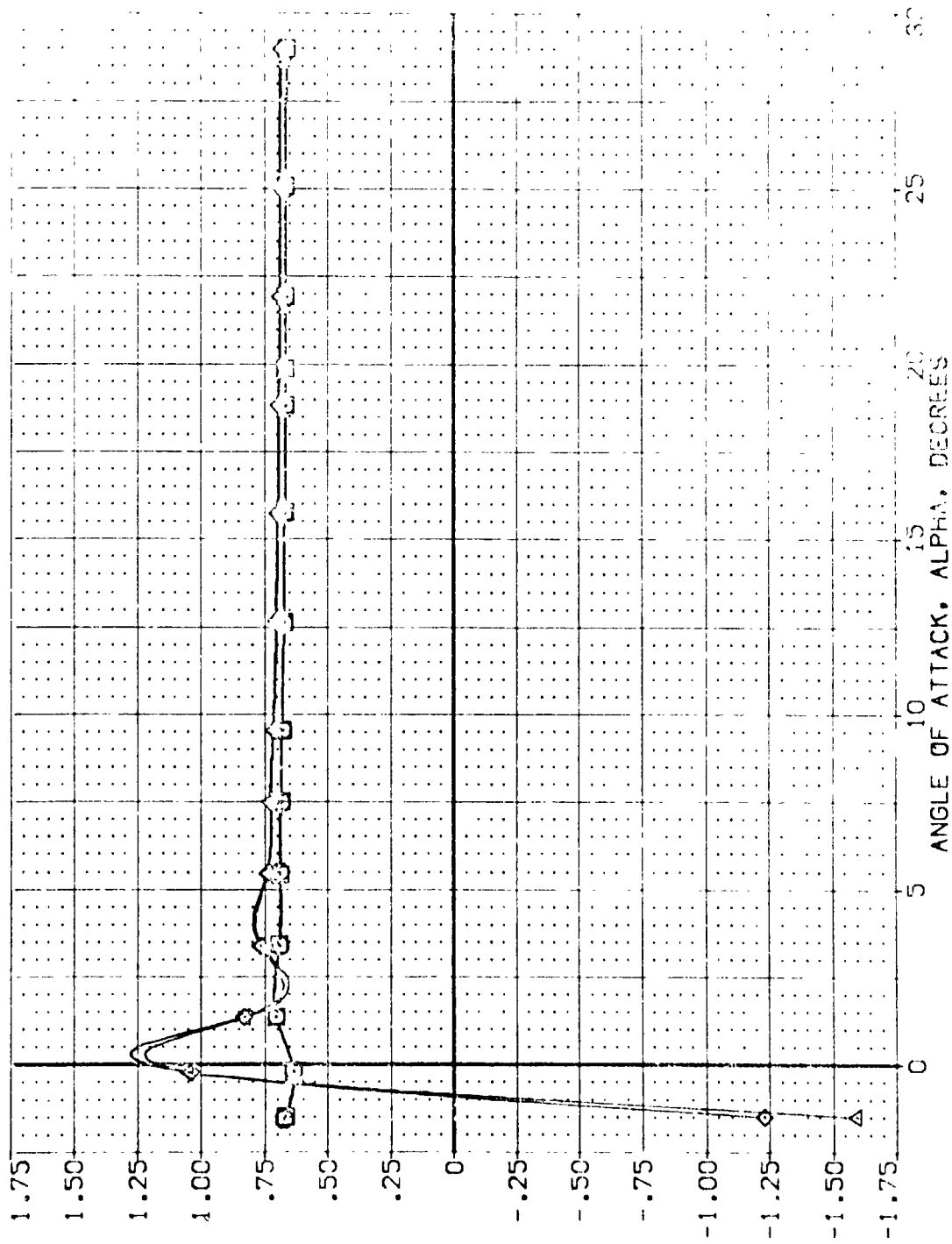


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		AIRLON		BOFLAP		SPOBRK		REFERENCE INFORMATION	
[VEK050]	ARC 97-747	0A538	B C M F V1	V	NOM: RN/L	SEAL.EL	.000	.000	15.300	55.000	SPEE	2.4210	50. FT.
[VEK049]	ARC 97-747	0A538	B C M F V1	V	NOM: RN/L	SEAL.EL	.000	.000	16.300	55.000	LREF	14.2140	IN.
											BOFLAP	28.100%	IN.
											YMRP	32.2010	IN.
											YMRP	.0000	IN.
											ZMRP	11.2500	IN.
											SCALE	.0000	SCALE

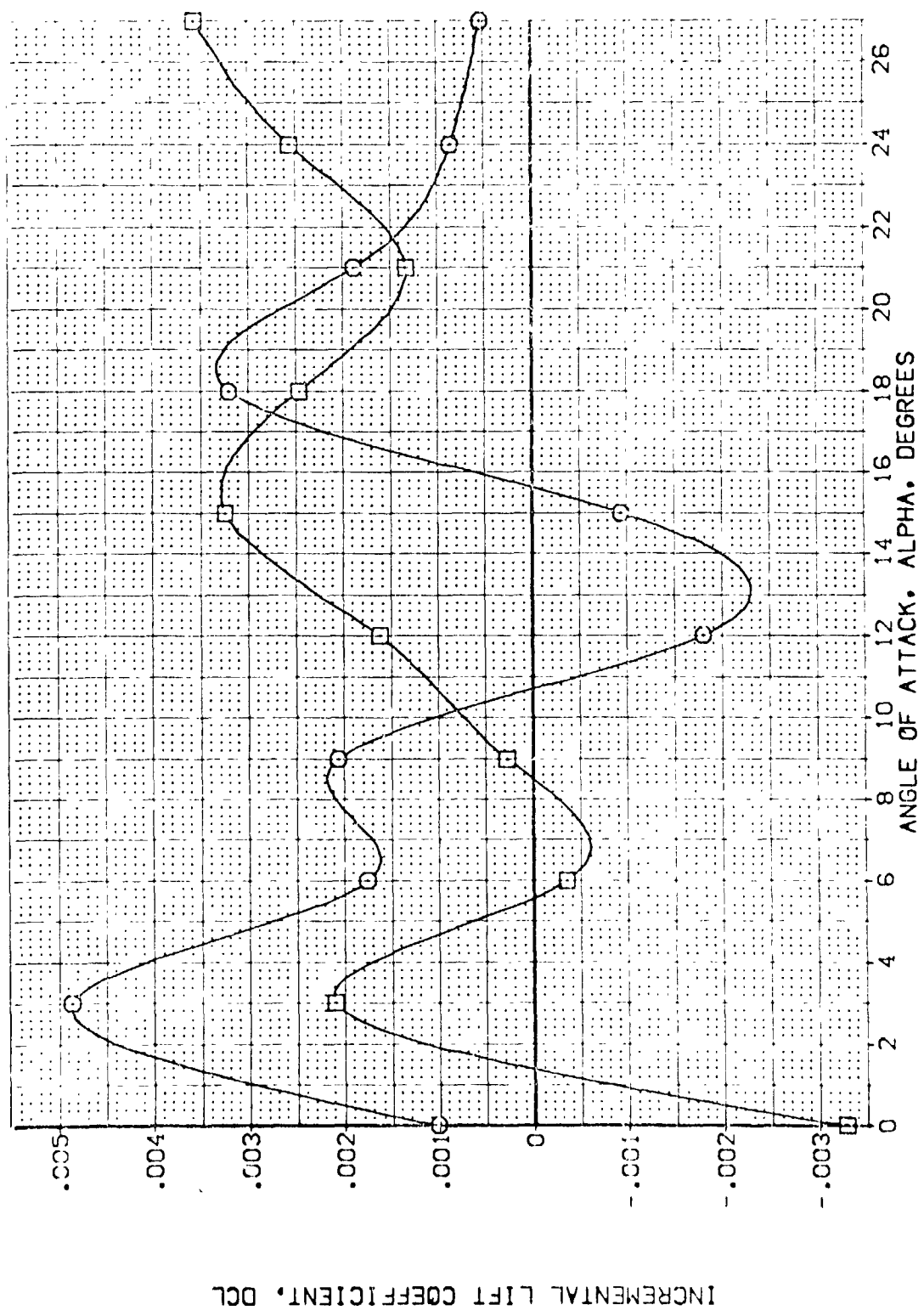


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPEEDBRK	REFERENCE 1 - OPERATION
(VF1050)	ARC 97-747 04538 B C M F V1 V	.000	.000	16.300	55.000	SREF 2.4310
(VF1049)	ARC 97-747 04533 B C M F V1 V	15.000	.000	16.300	55.000	LREF 14.0000
						SCALE 11.7000
						SCALE 11.7000

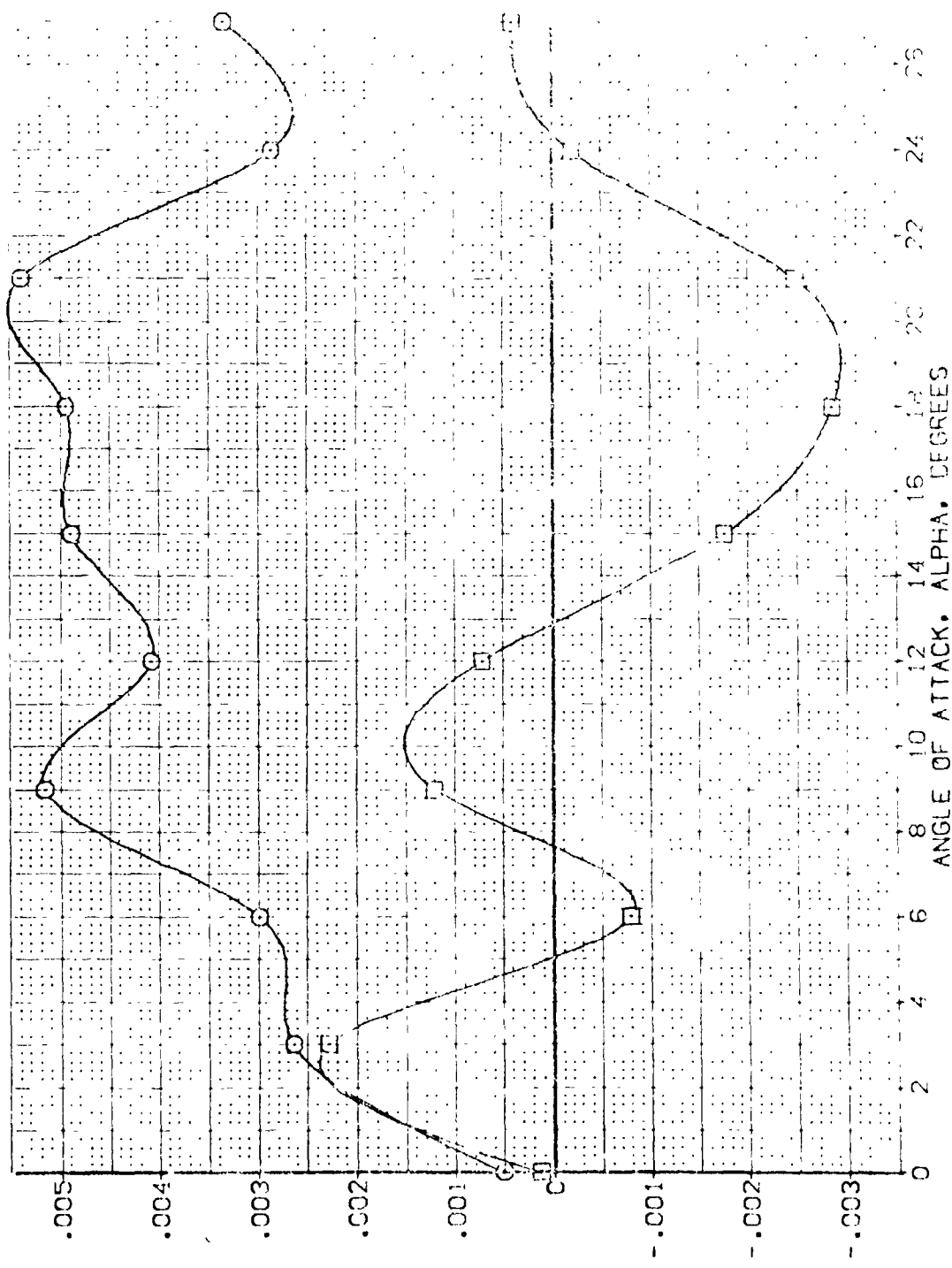


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B) YACH = 2.00

DATA SET SYMBOL: APC 97-747 CAS38 B C M F V1 V
 (VERD49) (VERD49) CAS53 B C M F V1 V

CONFIGURATION DESCRIPTION: NOM. RN/L SEAL-EL
 NOM. RN/L SEAL-EL

ELEVON: .000
 15.000

AIRLON: .000
 .000

BOFLAP: 16.300
 16.300

SPOORR: 55.000
 55.000

REFERENCE INFORMATION: SREF 2.4210 50.57.
 LREF 14.2440 11.
 LREF 23.1100 11.
 LREF 32.0310 11.
 YMRP 11.2500 11.
 SCALE 11.0000 11.0000

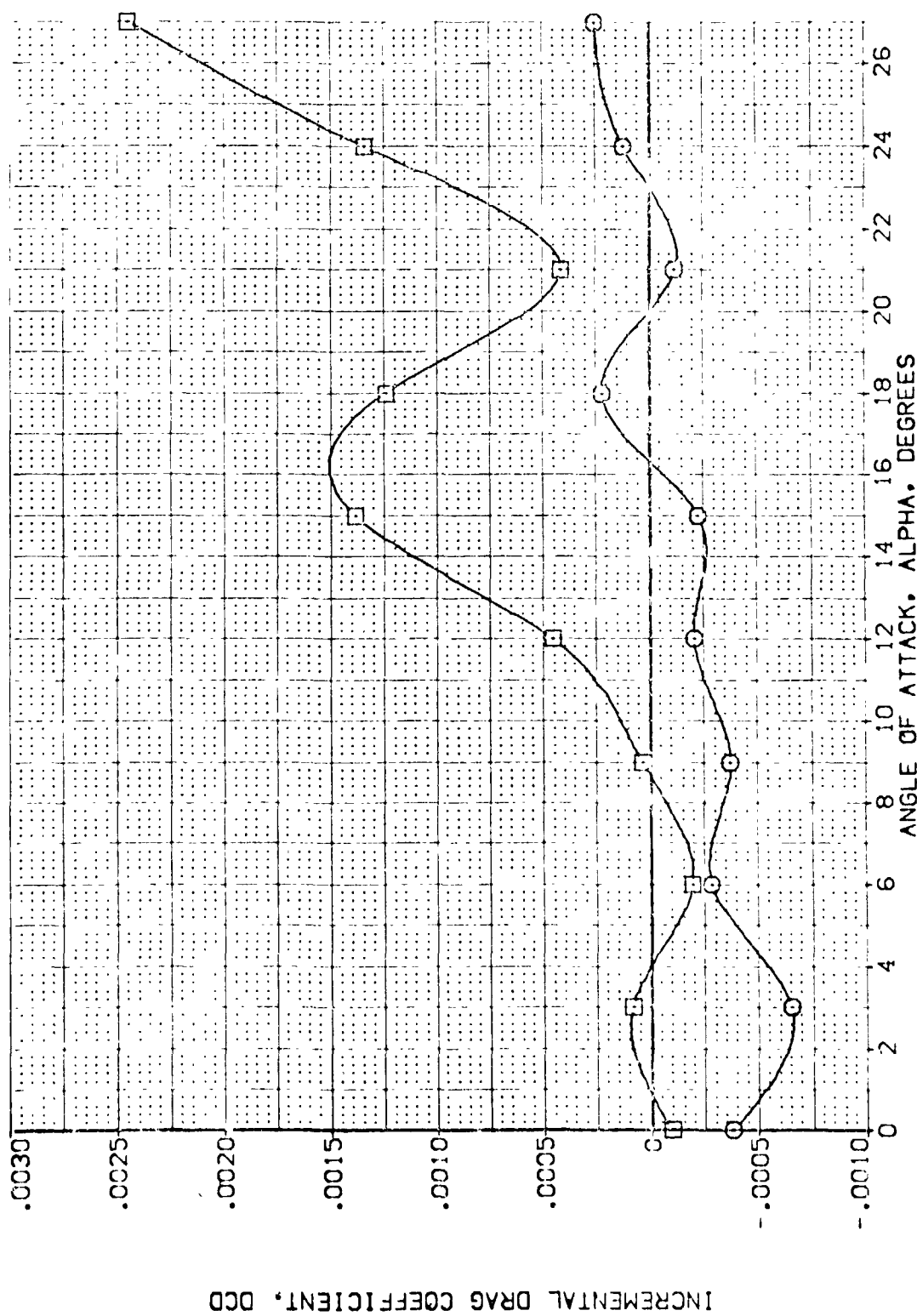


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPODBK	REFERENCE INFORMATION
[V1P050]	ARC 97-747 OA538 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210
[V1P019]	ARC 97-747 OA538 B C M F VI V	.000	.000	16.300	55.000	UREF 14.1210
						SCALE 11.1010

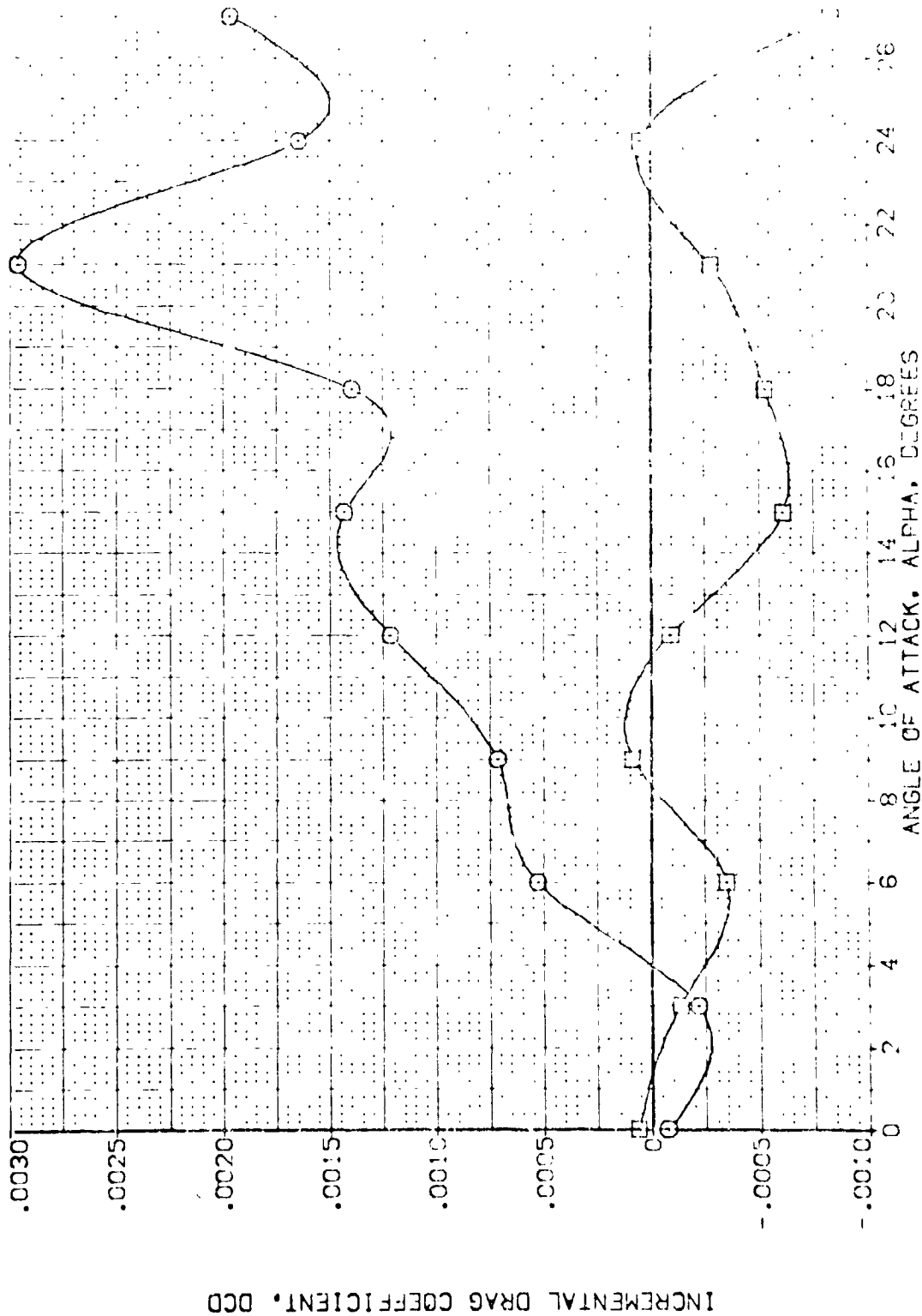


FIG. 10 SEALED ELEVON SPLIT EFFECTS
(B)MACH = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		AIRLON		BOLAP		SPOBRK		REFERENCE INFORMATION	
(VEMO2)	ARC 97-747	CAS33	B C M F VI	V	NOM	RNVL	SEAL	EL	.000	.000	55.000	SREF	2.4210
(VEMO49)	ARC 97-747	CAS33	B C M F VI	V	NOM	RNVL	SEAL	EL	.000	.000	55.000	LREF	14.2140
												BREF	20.1004
												VMXP	32.0010
												VMXP	00.0000
												ZMXP	11.0000
												SCALE	.0000

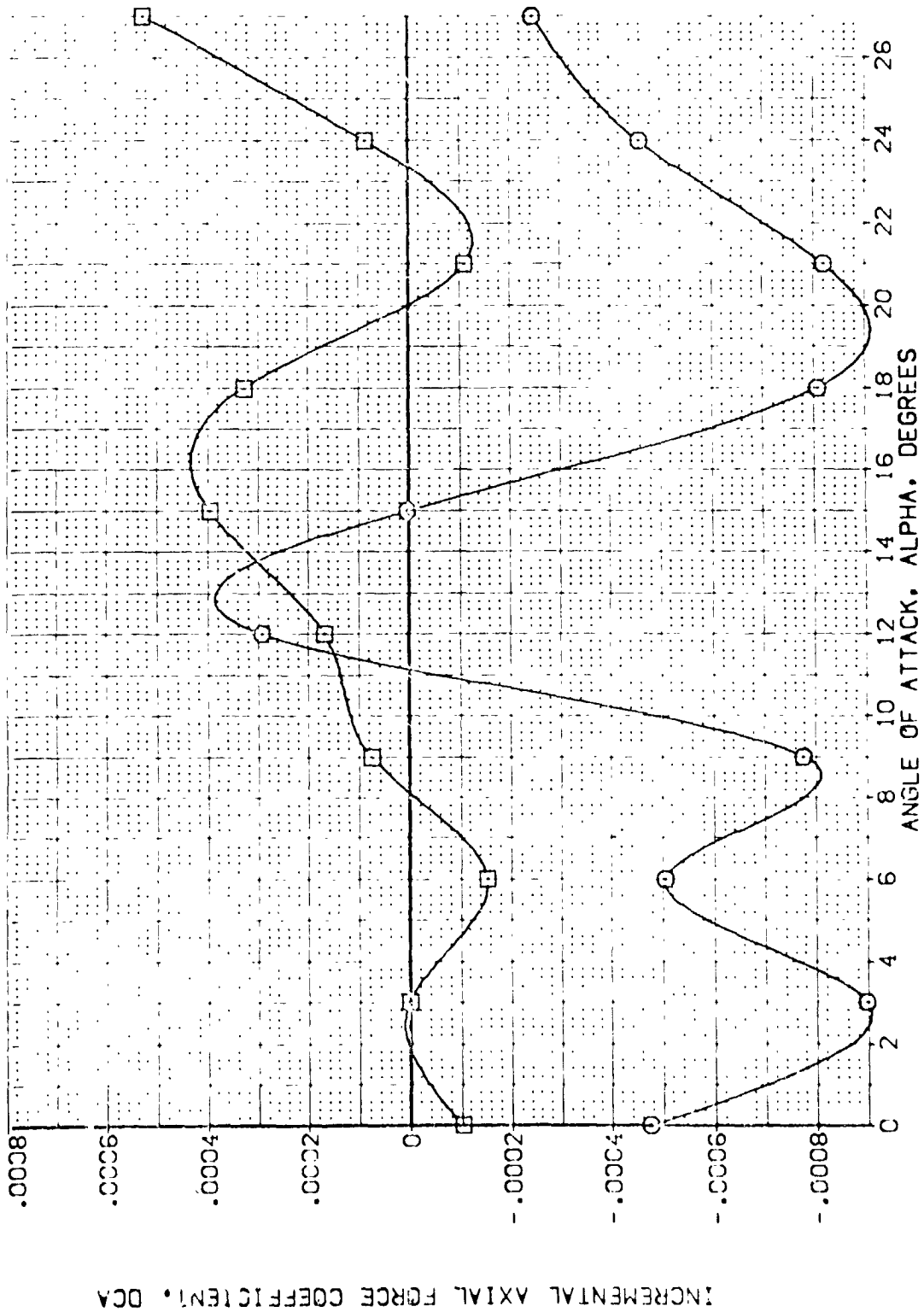


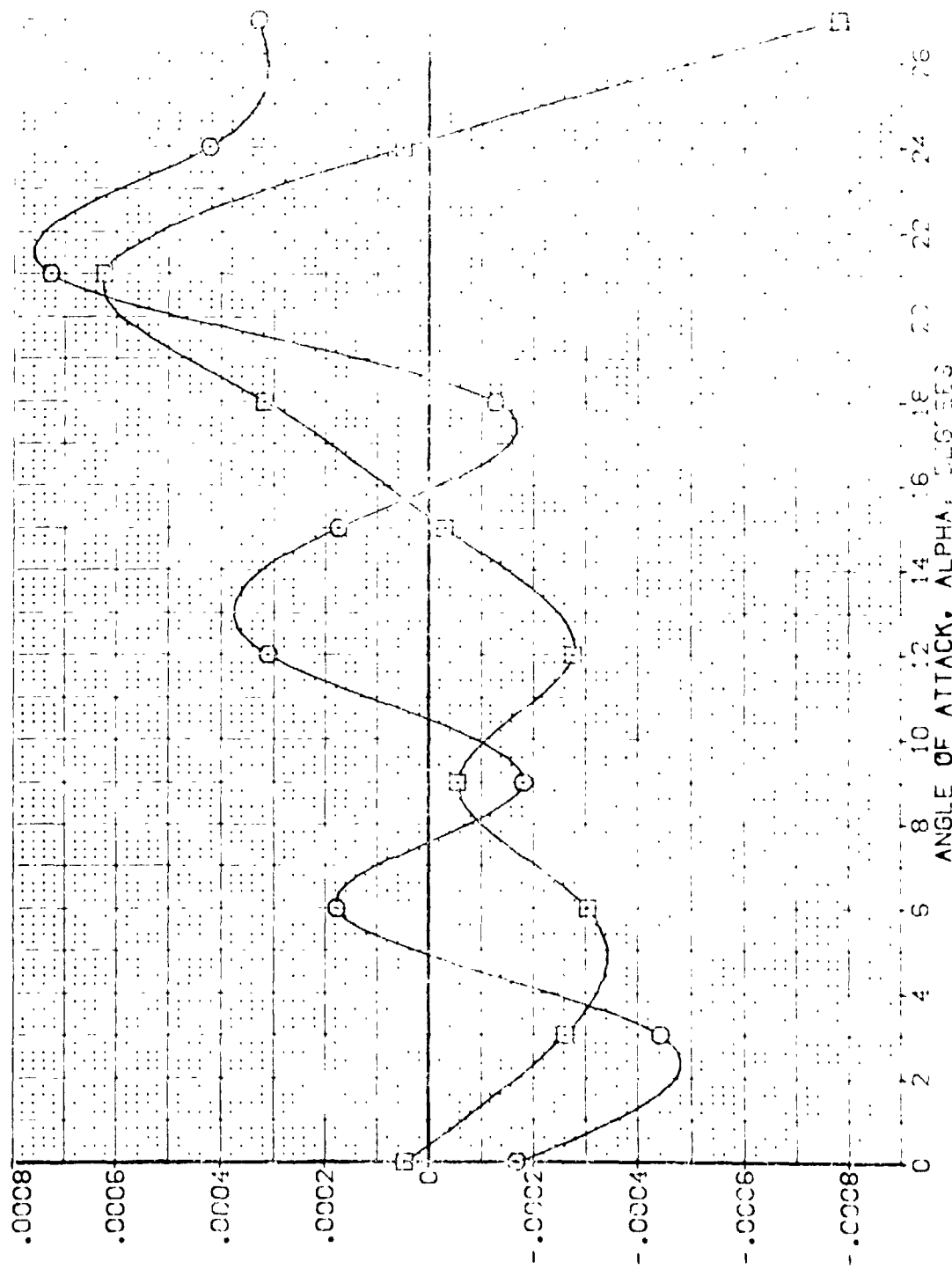
FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A)MACH = 1.60

DATA SET SY-30L CONFIGURATION DESCRIPTION
 (VEK050) ARC 97-747 0A538 B C M F VI V
 (VEK049) ARC 97-747 0A538 B C M F VI V

ELEVON AILRON BDF LAP SPDRK
 .000 .000 16.300 55.000
 .000 .000 16.300 55.000

REFERENCE INFORMATION
 SREF 2.4210
 LREF 14.2440
 BREF 22.1000
 XREF 32.1000
 YREF 11.1000
 ZREF 11.1000
 SCALE 10.000



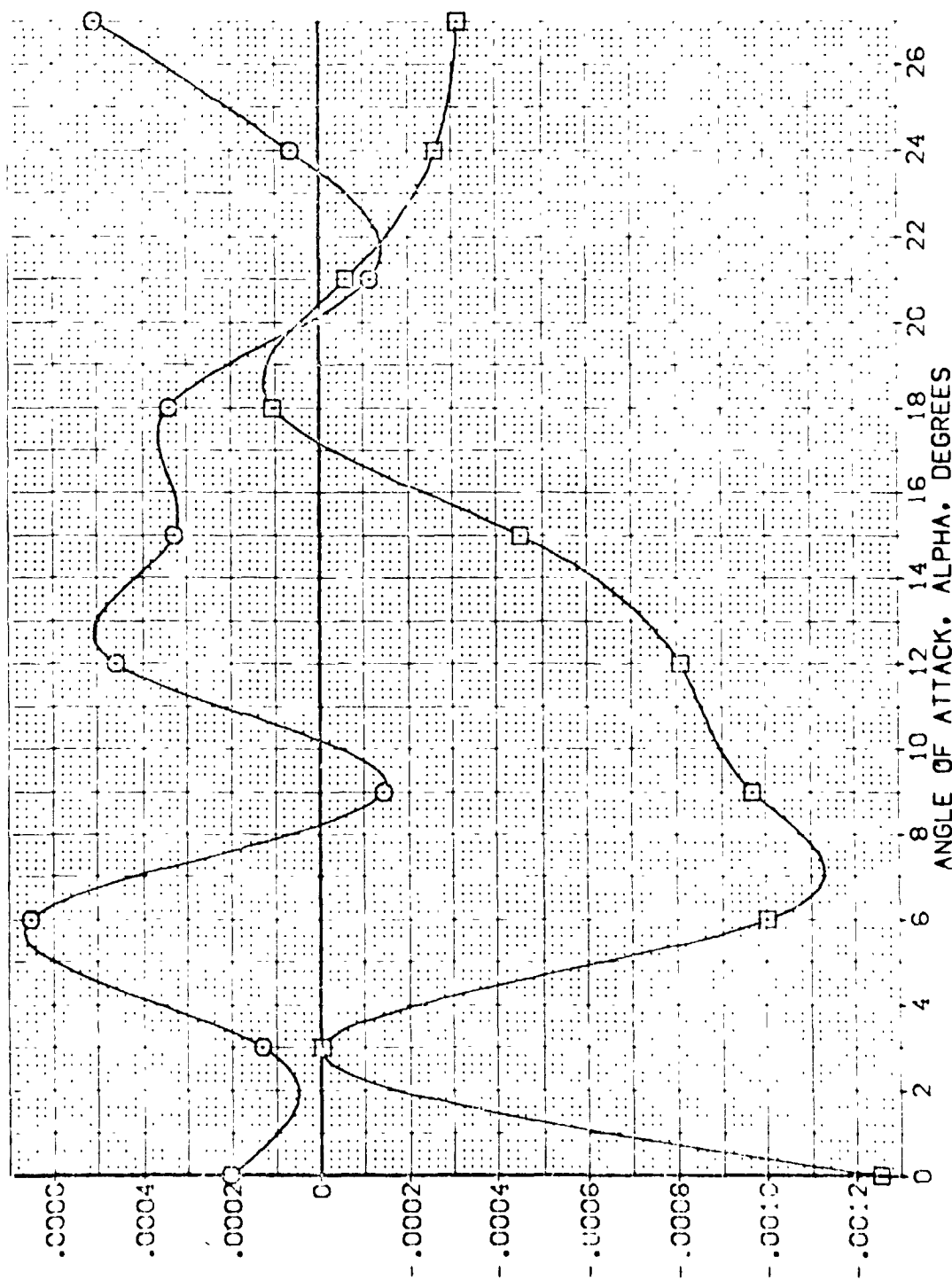
INCREMENTAL AXIAL FORCE COEFFICIENT, DCA

FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B)MACH = 2.00

PAGE 236

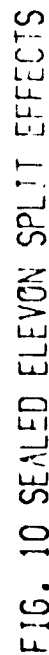
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	ATLIRON	BOFLAP	SPODBRK	REFERENCE INFORMATION
(VEK050)	ARC 97-747 DAS38 B C H F VI V	.000	.000	16.300	55.000	SREF 2.4210 50.0"
(VEK049)	ARC 97-747 DAS38 B C H F VI V	15.000	.000	16.300	55.000	LREF 14.2140 16.0"
						BREF 28.1000 16.0"
						YMPP 32.5010 16.0"
						ZMPP .0000 16.0"
						SCALE 11.2500 16.0"



INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DCAF

FIG. 10 SEALED ELEVON SPLIT EFFECTS

(M)MACH = 1.60

[illegible]

0.5
0.38

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		REFERENCE INFORMATION	
ARC 97-747	ARC 97-747	CAS33 B C M F V	V	SREF	2.4210
ARC 97-747	ARC 97-747	CAS33 B C M F V	V	LREF	14.2440
				SREF	28.1001
				XREF	32.1001
				YREF	11.0000
				ZREF	11.0000
				SCALE	1.0000

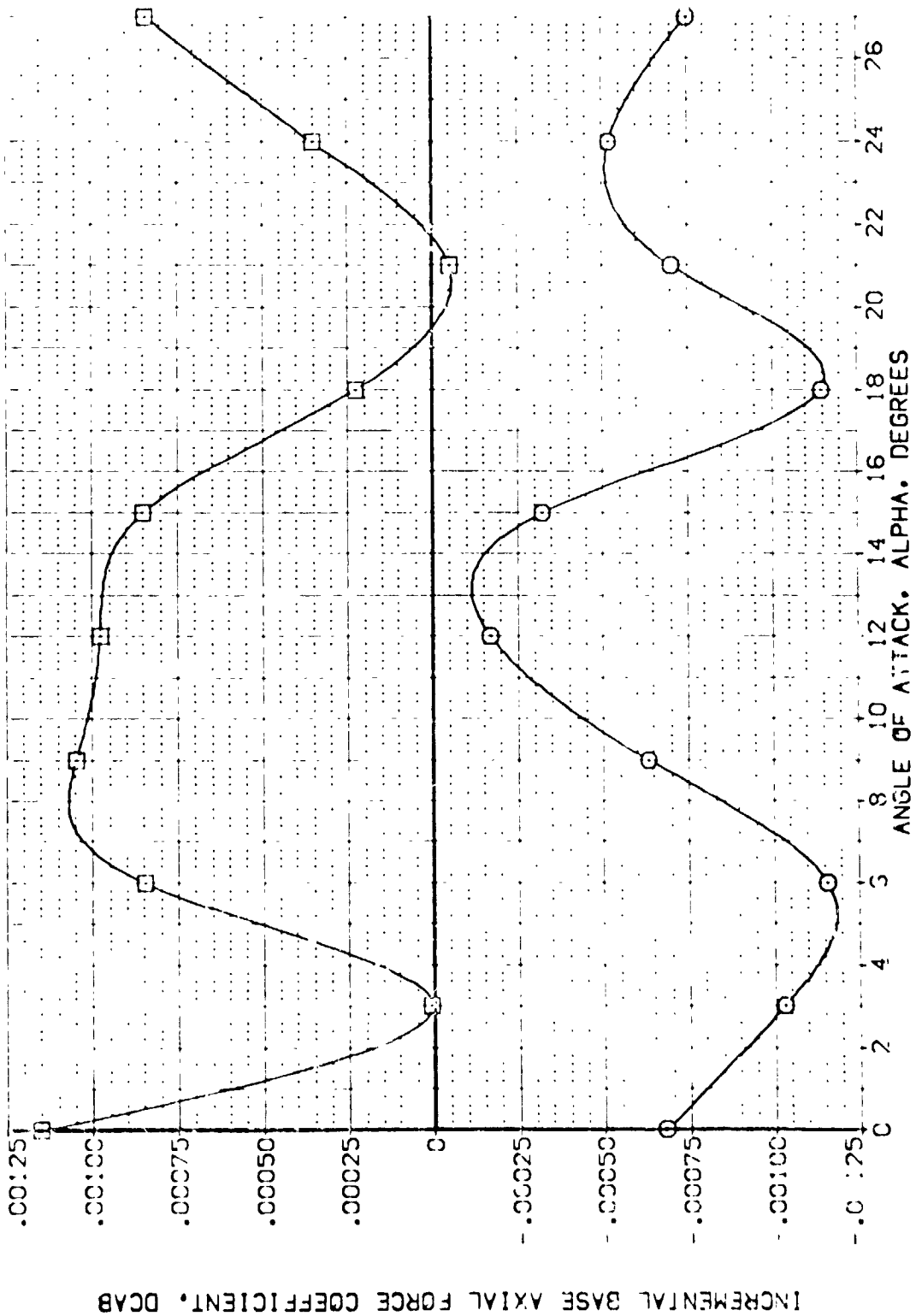


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A) MACH = 1.60

4

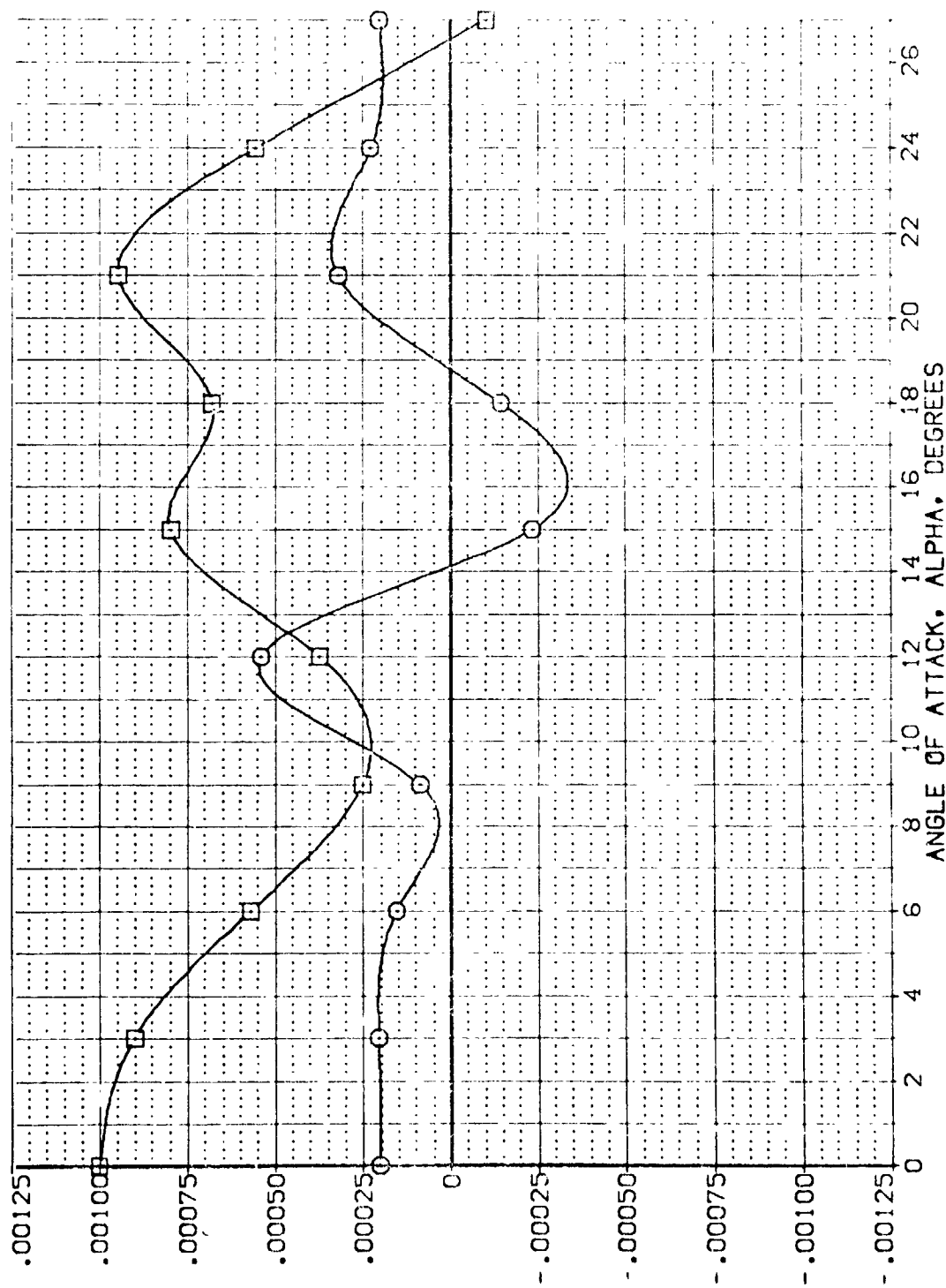


FIG. 10 SEALED ELEVEN SPLIT EFFECTS
(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	ATLUPN	BOFLAP	SPOBRK	REFERENCE INFORMATION
[VER050]	ARC 97-747 OAS38 B C M F V1 V	.000	.000	16.300	55.000	SREF 2.4210
[VER049]	ARC 97-747 OAS38 B C M F V1 V	.000	.000	16.300	55.000	LREF 14.2440
		SEAL.EL				BREF 28.1004
		EL				XMRP 32.0010
						YMRP .0000
						ZMRP 11.2500
						SCALE .0000

INCREMENTAL NORMAL FORCE COEFFICIENT, DCN

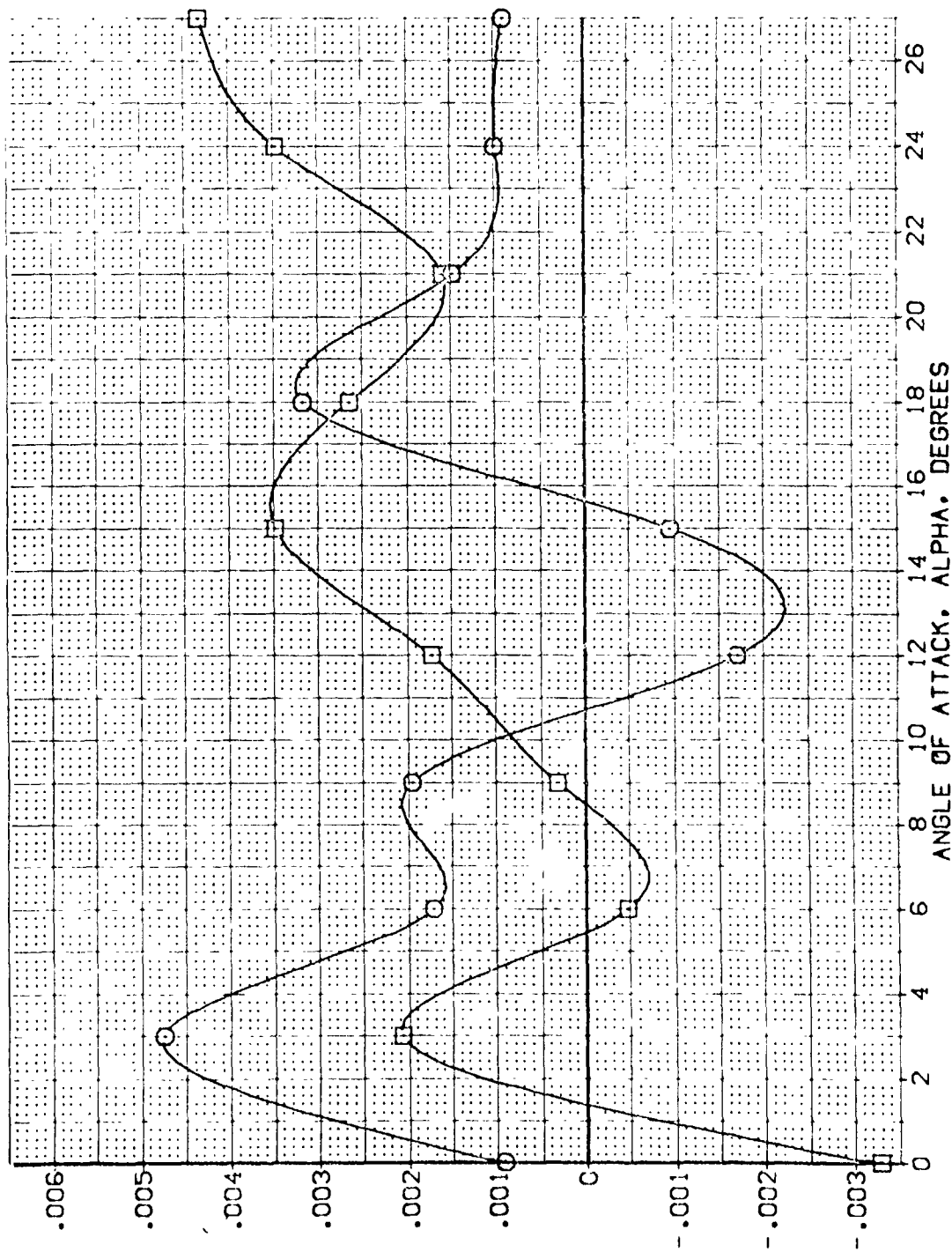


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	ATLIRON	BOFLAP	SPDRBK	REFERENCE INFORMATION
(VEK050)	ARC 97-747 DAS38 B C M F V	.000	.000	16.300	55.000	SREF 2.4710
(VEK049)	ARC 97-747 DAS38 B C M F V	15.000	.000	16.300	55.000	LREF 14.2420
						ESREF 20.1000
						XMREF 32.1000
						YMREF 10.0000
						ZMREF 11.2300
						SCALE

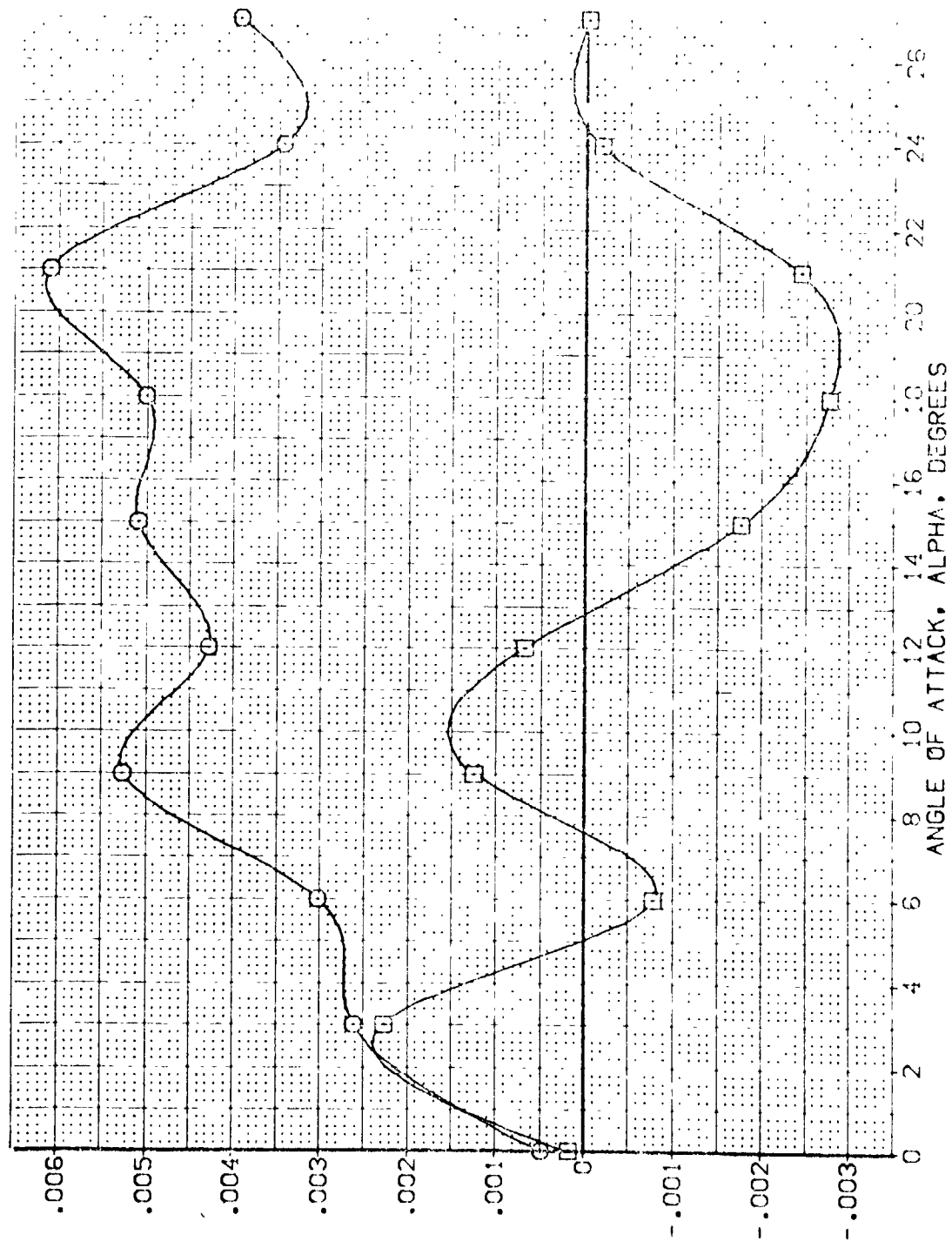


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILIRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
{VEK050}	ARC 97-747 DAS38 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210 SQ.FT.
{VEK049}	ARC 97-747 DAS38 B C M F VI V	15.000	.000	16.300	55.000	LREF 14.2440 IN.
						BREF 29.1004 IN.
						XMSP 32.0310 IN.
						YMSP .0000 IN.
						ZMSP 11.2500 IN.
						SCALE .0000 SCALE

INCREMENTAL PITCHING MOMENT COEFFICIENT (FWD C.G.), DCMFWD

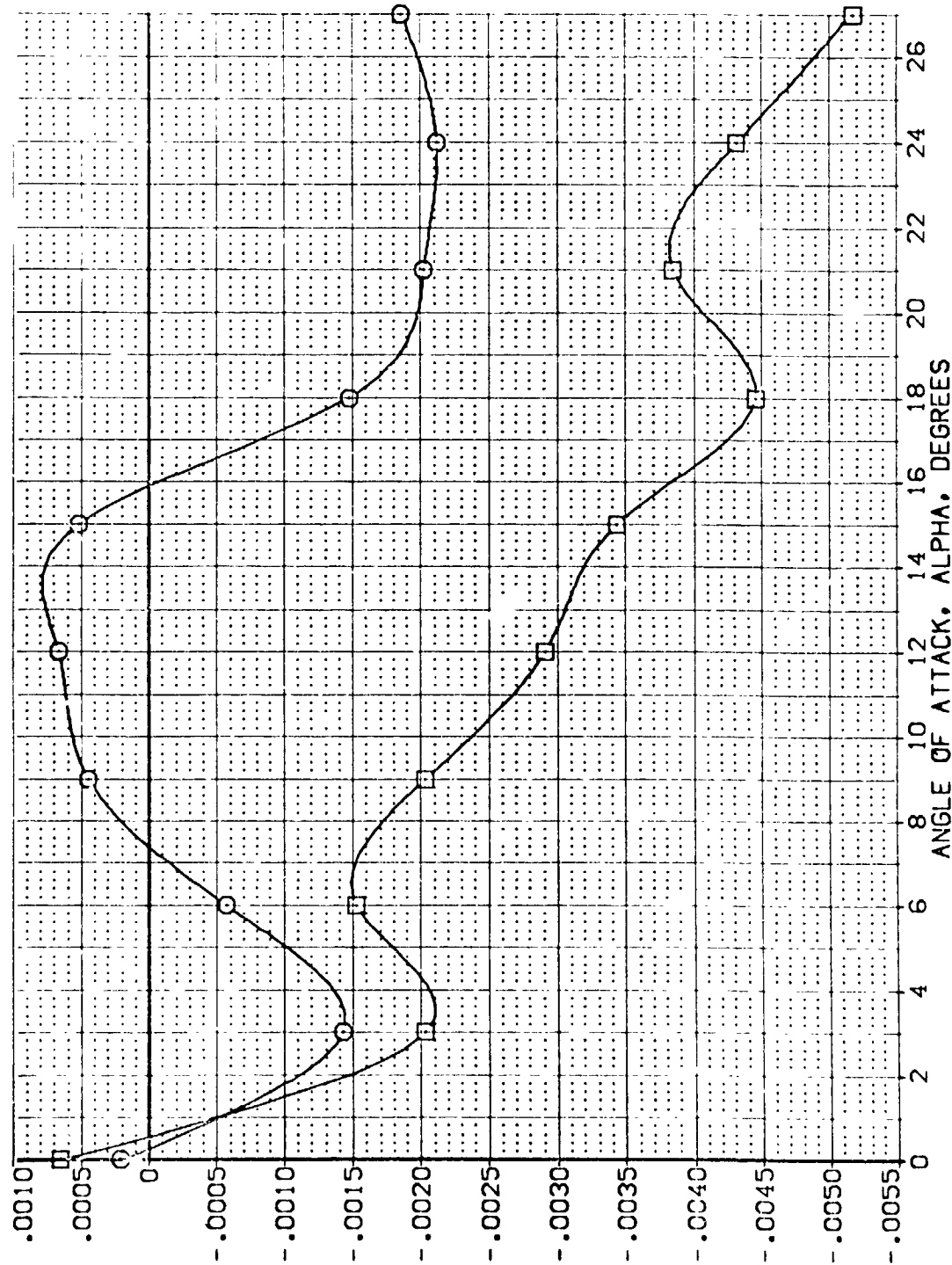


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL

[VER050]

[VER049]

CONFIGURATION DESCRIPTION

APC 97-747 0A538 B C M F V1 V

AKA 97-747 0A538 B C M F V1 V

NOM: RV/L SEAL.EL

NOM: RV/L SEAL.EL

ELEVON

AILERON

BOFLAP

SPOBRM

55.000

55.000

55.000

55.000

REFERENCE INFORMATION

SPREF 2.4210

LRREF 14.7210

ERREF 28.1004

XPREF 52.0010

YMREF 52.0010

ZMREF 11.2000

SCALE .0010

SS FT.

IN.

IN.

IN.

IN.

IN.

IN.

IN.

INCREMENTAL PITCHING MOMENT COEFFICIENT (FWD C.G.), DCMFWD

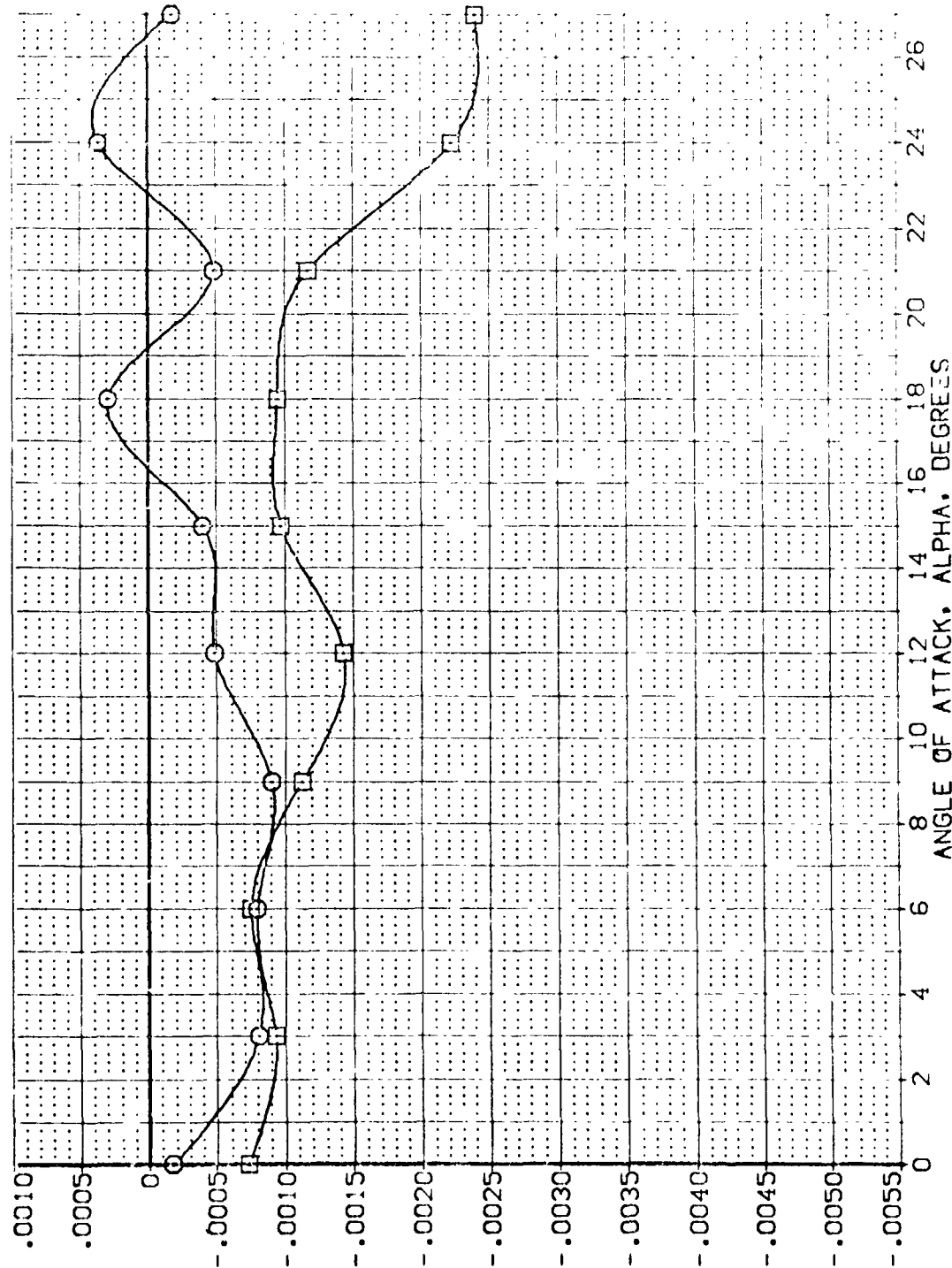


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	BOFLAP	SPODBK	REFERENCE INFORMATION
(VEK050)	ARC 97-747 OAS38 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210 SQ.FT.
(VEK049)	ARC 97-747 OAS38 B C M F VI V	.000	.000	16.300	55.000	LREF 14.2440 IN.
		15.000				EGREF 28.1004 IN.
						XMGP 32.0010 IN.
						YMGP .0000 IN.
						ZMGP 11.2500 IN.
						SCALE .0350

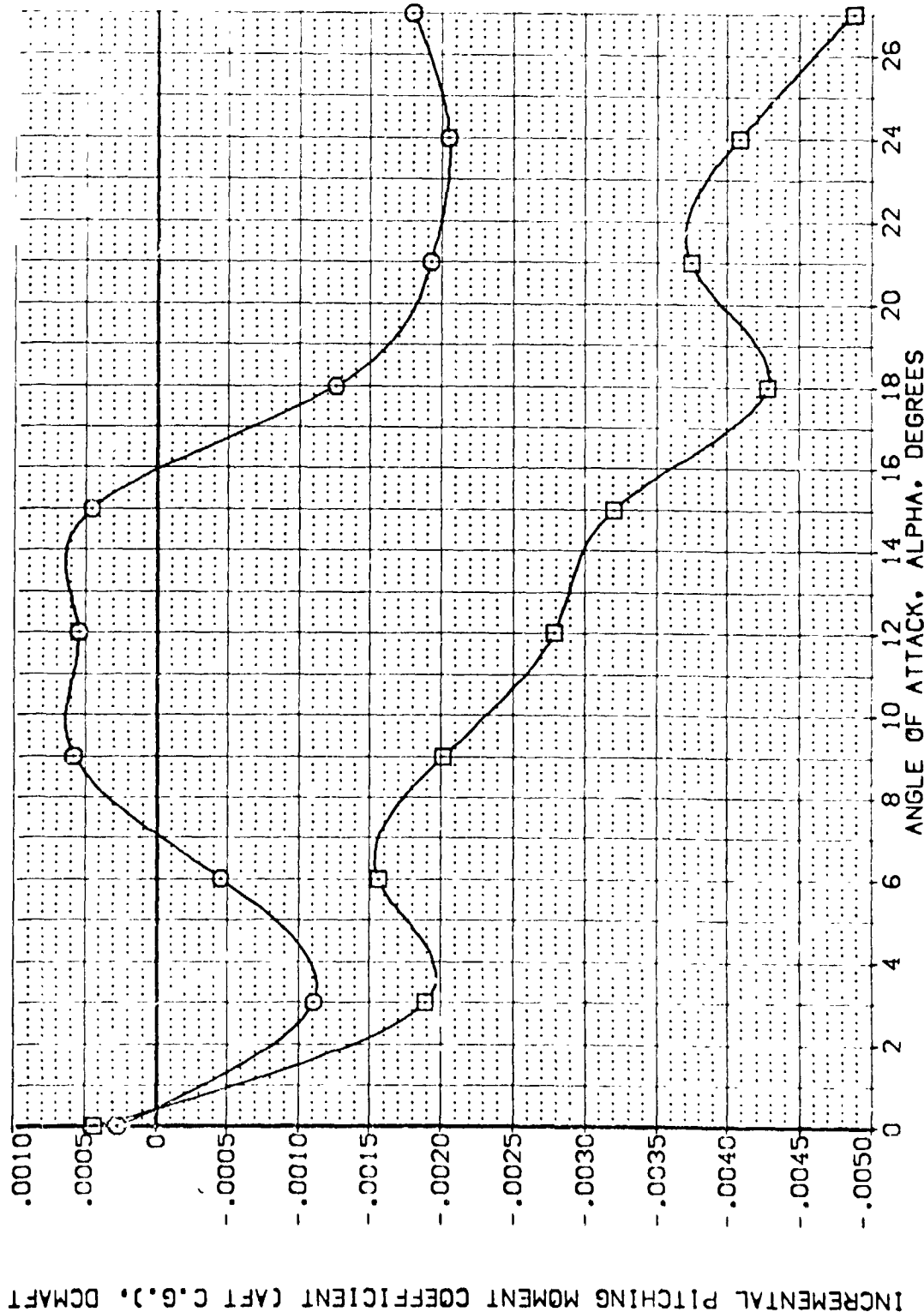



FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL: (VER050) (VER049)  CONFIGURATION DESCRIPTION: ARC 97-747 BAS38 B C M F V I V NOM: RVL SEAL:EL NOM: RVL SEAL:EL ELEVON: .000 .000 BOT:AP: 16.300 16.300 SPEED: 55.000 55.000 REFERENCE INFORMATION: SREF: 2.4210 SREF: 14.2110 LREF: 14.2110 LREF: 28.1104 GREF: 32.1104 XREF: 32.1104 YREF: 32.1104 ZREF: 32.1104 SCALE: 11.2110 SCALE: 11.2110

INCREMENTAL PITCHING MOMENT COEFFICIENT (AFT C.G.), DCMAPT

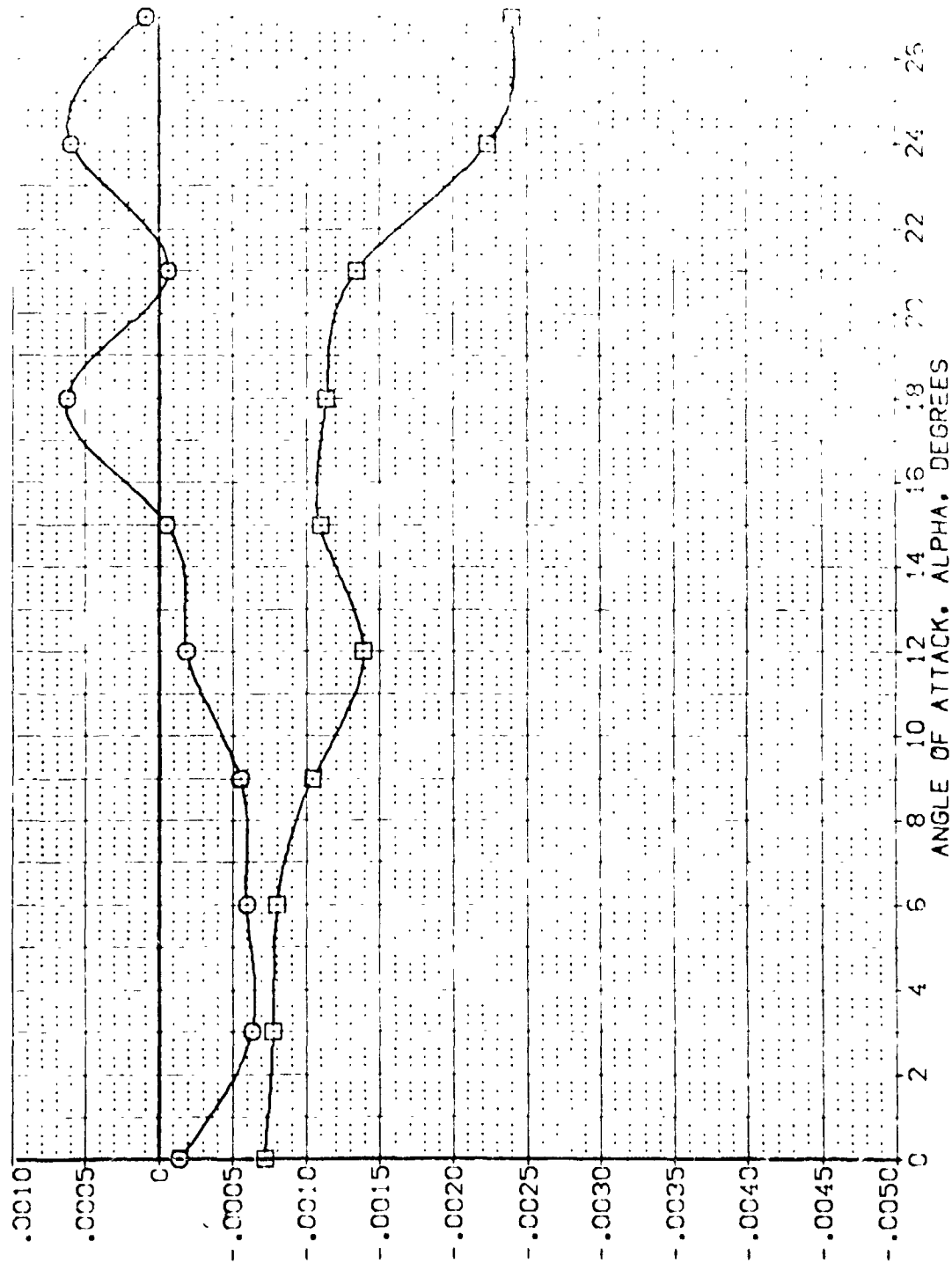


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B)MACH = 2.00

SIDE FORCE COEFFICIENT, CY

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BOFLAP	SPOBRK	AIRRON	REFERENCE INFORMATION
[AFK012]	ARC 97-747 OAS33 B C M F V1 V NOM. RV/L	.000	-11.700	55.000	.000	SREF 2.4210 SQ.FT.
[AEK013]	ARC 97-747 OAS33 B C M F V1 V NOM. RV/L	10.000	-11.700	55.000	.000	LREF 14.2440 IN.
[AEP014]	ARC 97-747 OAS33 B C M F V1 V NOM. RV/L	20.000	-11.700	55.000	.000	EREF 20.1004 IN.
						XMRP 32.3010 IN.
						YMRP .0000 IN.
						ZMRP 11.2500 IN.
						SCALE .0000

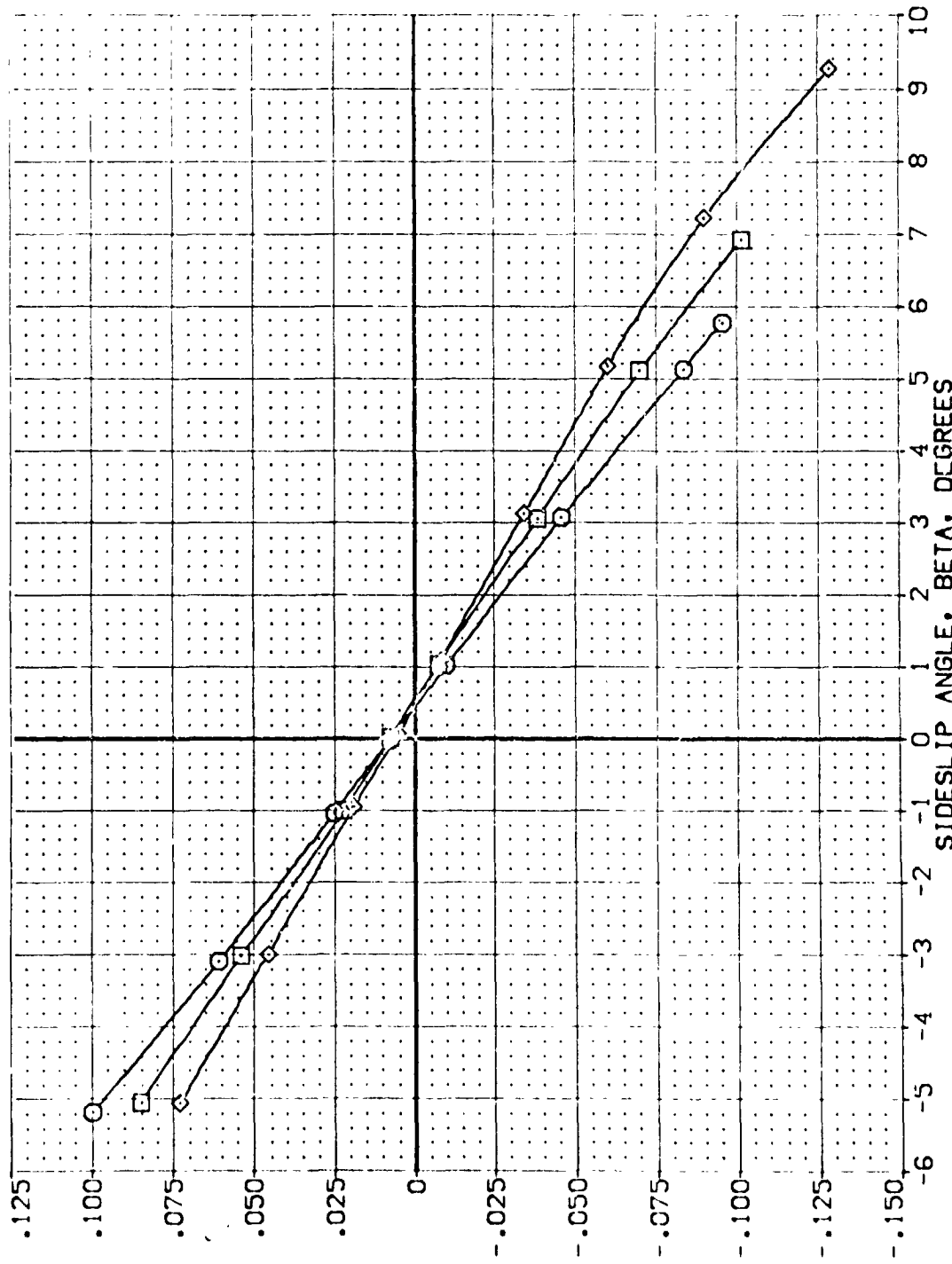


FIG. 11 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 1

(A)MACH = 1.60

SIDE FORCE COEFFICIENT, CY

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BOFLAP	SPOBRK	AIRLON	REFERENCE INFORMATION
[AEK012]	ARC 97-747 D4538 B C M F VI V	.000	-11.700	55.000	.000	SREF 2.4210
[AEK013]	ARC 97-747 D4538 B C M F VI V	10.000	-11.700	55.000	.000	LREF 14.2740
[AEK014]	ARC 97-747 D4538 B C M F VI V	20.000	-11.700	55.000	.000	SREF 32.1000
						XREF 32.1000
						YREF 0.0000
						ZREF 11.2500
						SCALE .0000

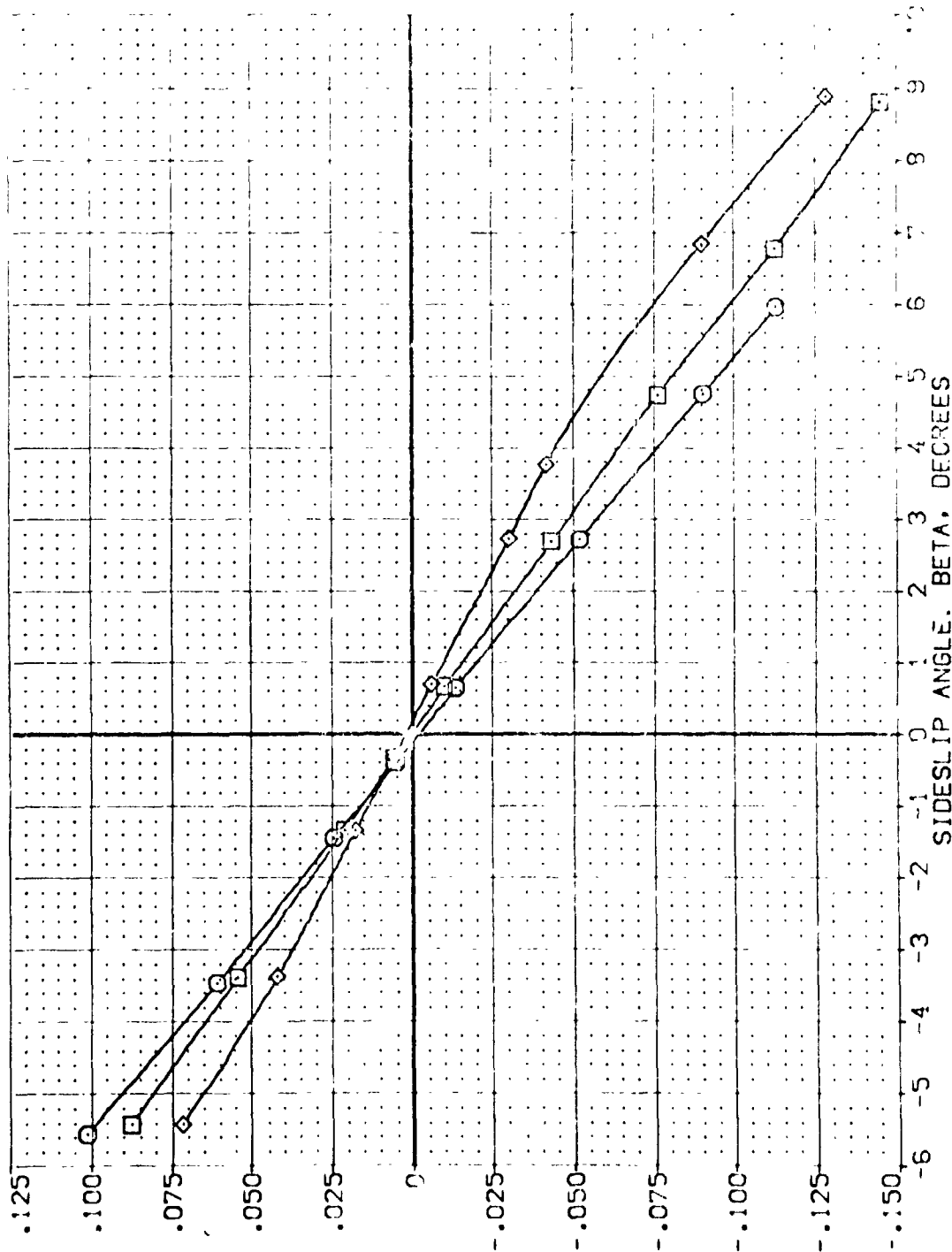


FIG. 11 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 1

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BOFLAP	SPEEDK	AIRLIFT	REFERENCE INFORMATION
[AEK012]	ARC 97-747 CAS38 B C M F VI V	0.000	-11.700	55.000	0.000	SREF 2.4210
[AEK013]	ARC 97-747 CAS33 B C M F VI V	10.000	-11.700	55.000	0.000	LRREF 14.2040
[AEK014]	ARC 97-747 CAS33 B C M F VI V	20.000	-11.700	55.000	0.000	DRREF 22.1000
						XRREF 32.1010
						YMRREF 11.2500
						SCALE 0.0500

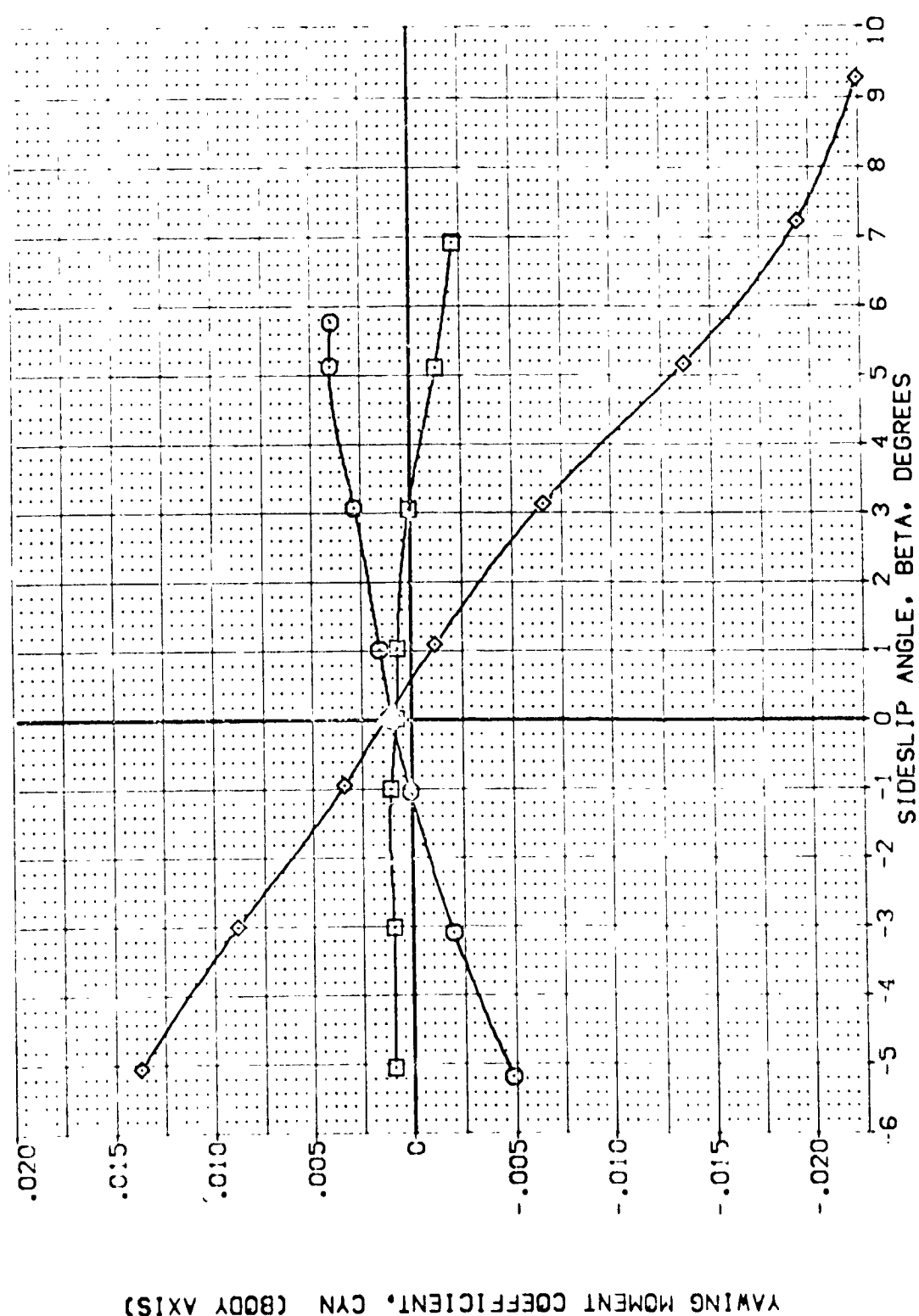


FIG. 11 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 1

(MACH = 1.60)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BOFLAP	SPOBRK	AIRTON	REFERENCE INFORMATION
(AEK012)	ARC 97-747 OAS38 B C M F V	.000	-11.700	55.000	.000	SREF 2.4210 SCALE
(AEK013)	ARC 97-747 OAS38 B C M F V	10.000	-11.700	55.000	.000	LRREF 14.2240 SCALE
(AEK014)	ARC 97-747 OAS38 B C M F V	20.000	-11.700	55.000	.000	CRREF 20.1000 SCALE
						LMREF 22.0000 SCALE
						YREF 11.0000 SCALE
						ZMREF 11.0000 SCALE

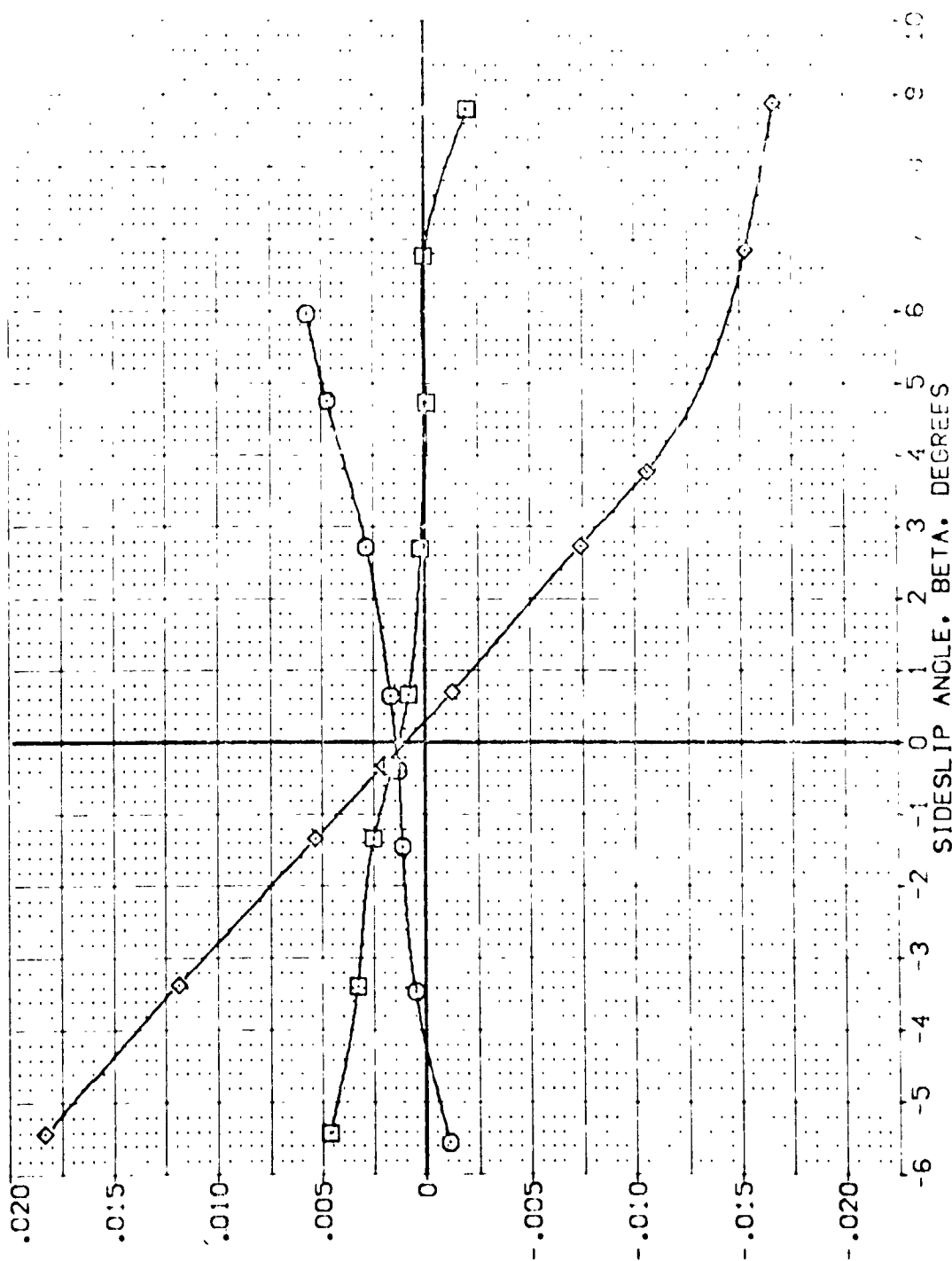


FIG. 11 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 1

(B)MACH = 2.00

DATA SET SYMB.	CONF	DESCRIPTION	ALPHA	BOFLAP	SPOBRK	AIRRON	REFERENCE INFORMATION
[AEQ12]	ARC	97-747 B C M F V	.000	-11.700	55.000	.000	SRL 2.4210 50.FT.
[AEQ13]	ARC	97-747 B C M F V	10.000	-11.700	55.000	.000	LREF 14.2440 IN.
[AEQ14]	ARC	97-747 B C M F V	20.000	-11.700	55.000	.000	EREF 20.1004 IN.
							YMRP 32.3010 IN.
							YMRP .0000 IN.
							ZMRP 11.2500 IN.
							SCALE .0000 SCALE

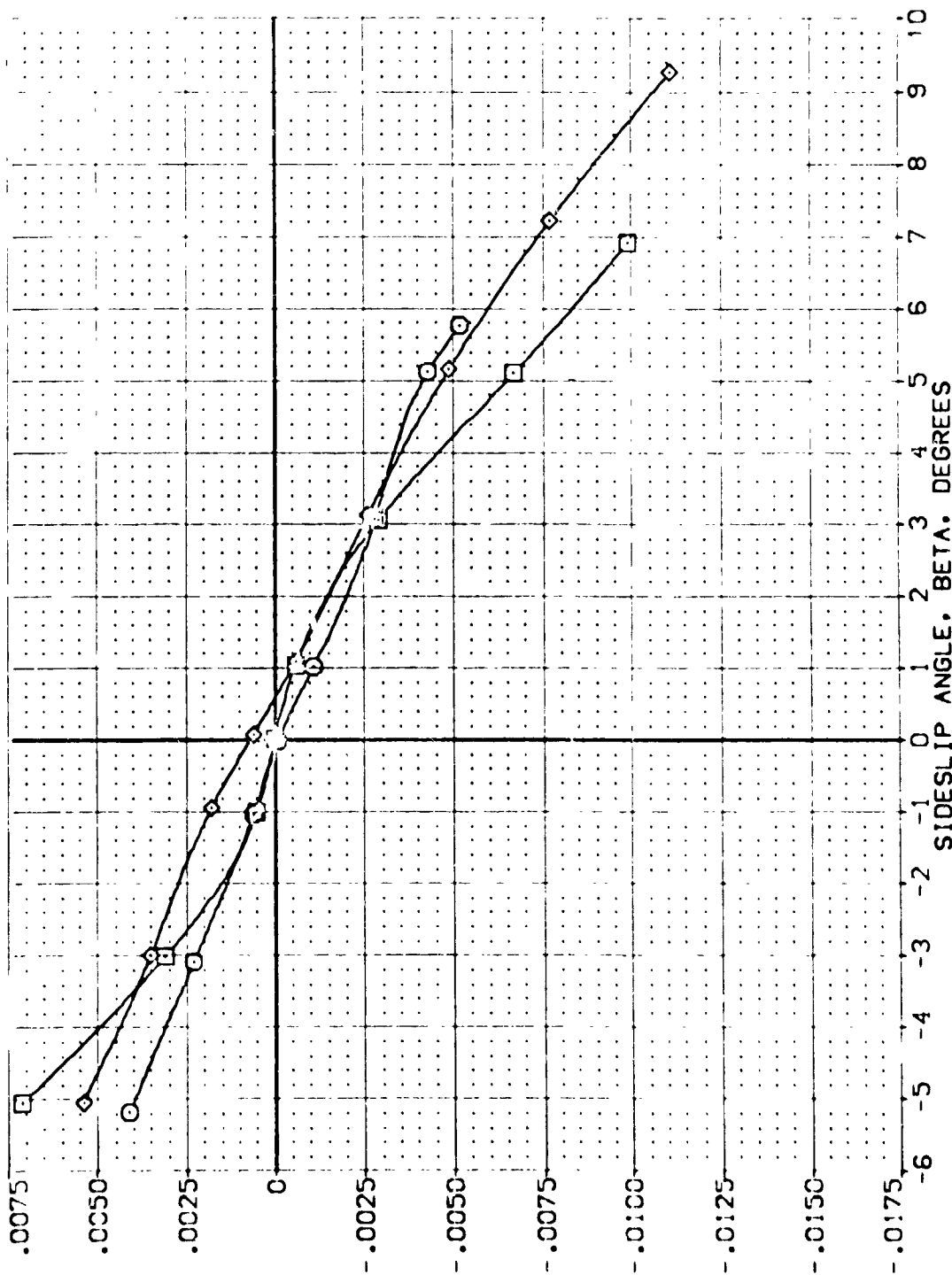


FIG. 11 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 1

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	A	W	BOFLAP	SPOBRK	AIRLON	REFERENCE INFORMATION
(AE=012)	ARC 97-747 CAS33 B C M F VI V	.000	.000	-11.700	55.000	.000	SREF 2.4210
(AE=013)	ARC 97-747 CAS33 B C M F VI V	10.000	10.000	-11.700	55.000	.000	LREF 14.2440
(AE=014)	ARC 97-747 CAS33 B C M F VI V	20.000	20.000	-11.700	55.000	.000	BREF 28.0004
							WREF 32.0010
							YREF 11.0000
							ZREF 11.0000
							SCALE 11.0000

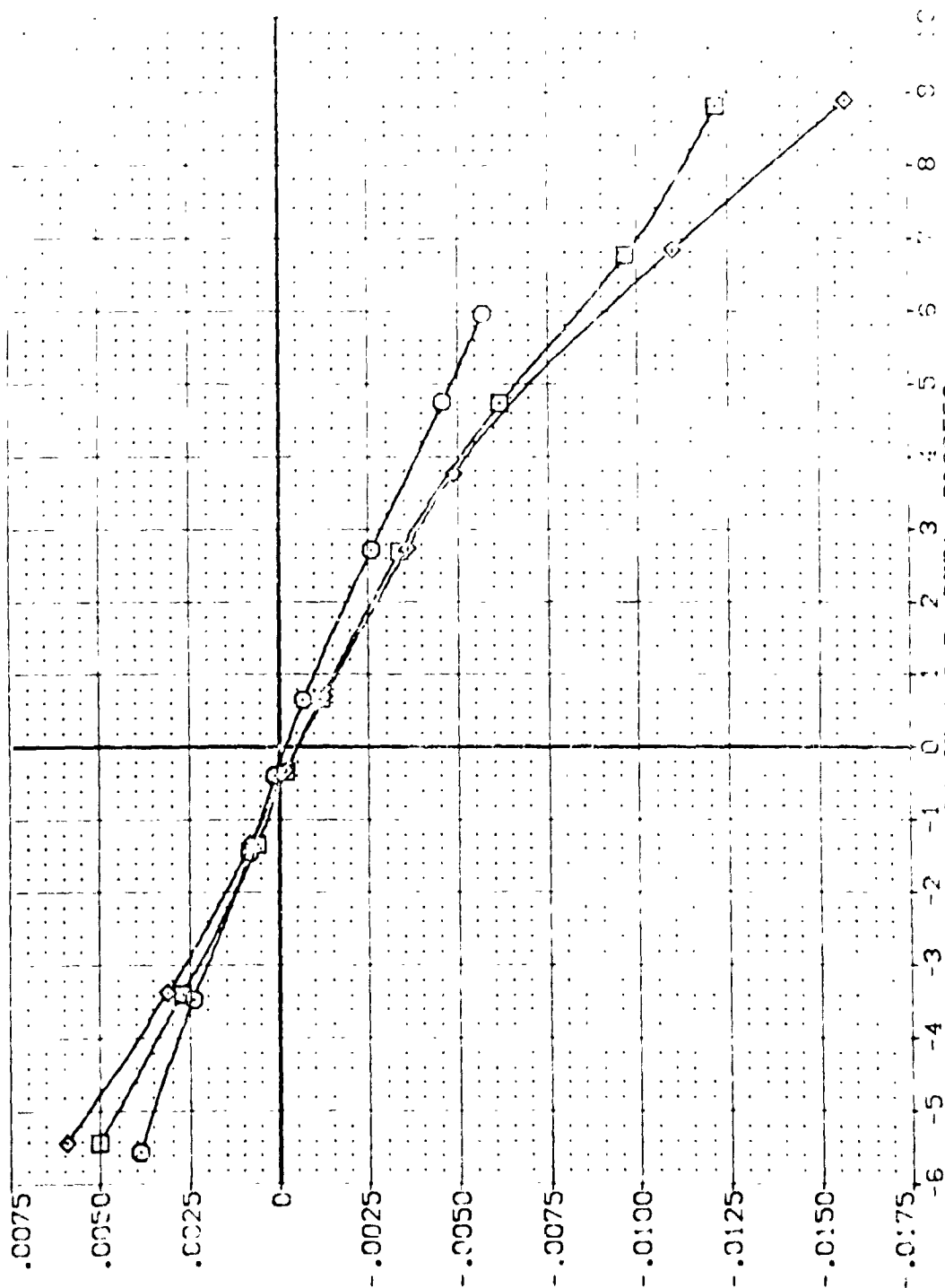


FIG. 11 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART I

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BOFLAP	SPDRBK	ATLRON	REFERENCE INFORMATION
[AEK025]	ARC 97-747 CAS23 B C M F VI V	.000	-11.700	25.000	.000	SREF 2.4210 SQ.FT.
[AEK026]	ARC 97-747 CAS23 B C M F VI V	10.000	-11.700	25.000	.000	UREF 14.2440 IN.
[AEK027]	ARC 97-747 CAS38 B C M F VI V	20.000	-11.700	25.000	.000	SCALE 20.000 IN.
						XMRP 32.000 IN.
						YMRP 11.2500 IN.
						ZMRP 11.0000 IN.
						SCALE .0000 SCALE

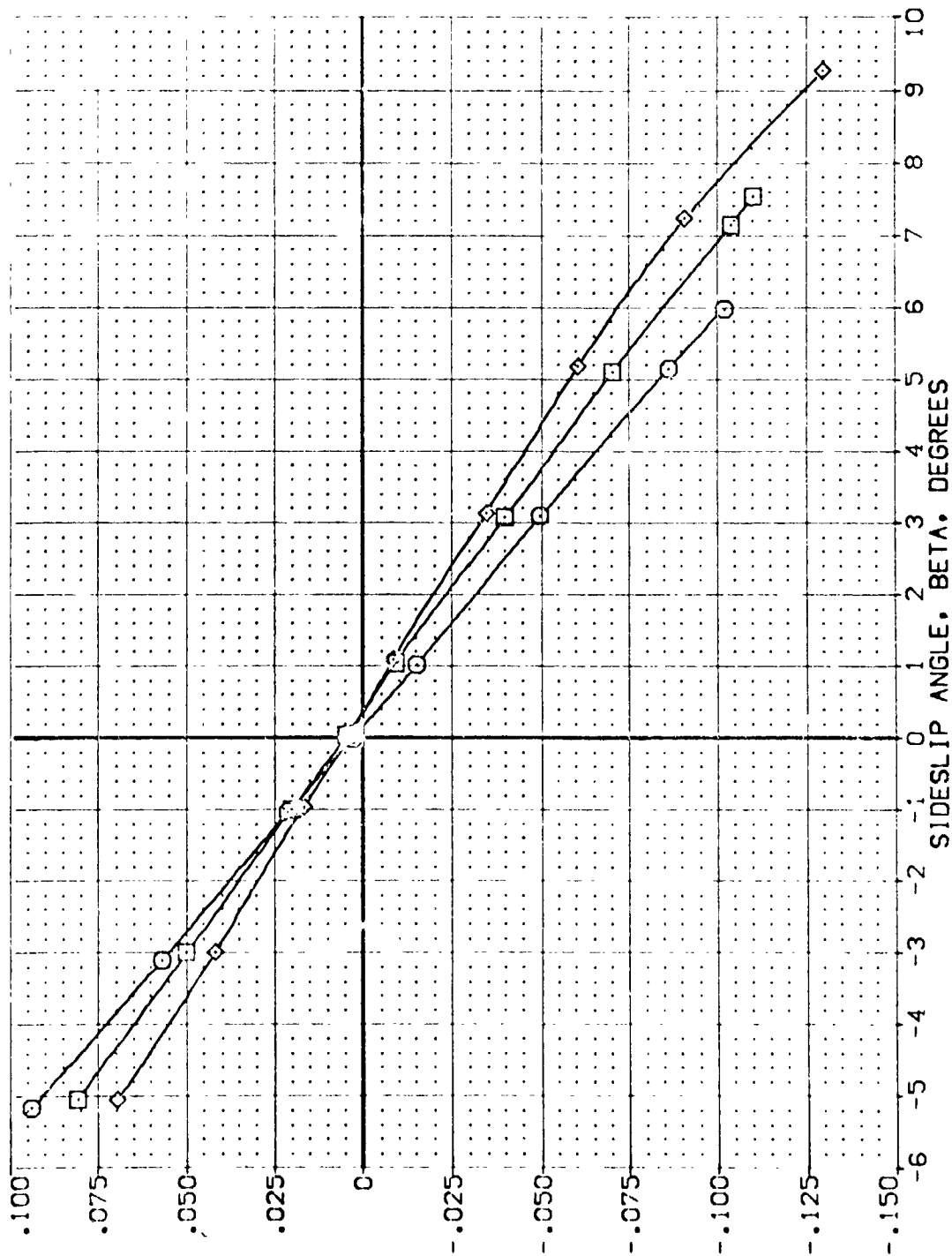


FIG. 12 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 2

(A)MACH = 1.60

SIDE FORCE COEFFICIENT, CY

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BOFLAP	SPOORX	ALLRON	REFERENCE INFORMATION
[AER025]	ARC 97-747 0A538 B C M F V1 V	.000	-11.700	25.000	.000	SREF 2.4210
[AER026]	ARC 97-747 0A538 B C M F V1 V	10.000	-11.700	25.000	.000	UDEF 14.2410
[AER027]	ARC 97-747 0A538 B C M F V1 V	20.000	-11.700	25.000	.000	WDEF 20.1000
						YREF 32.1000
						ZREF 11.2000
						SCALE 10.000

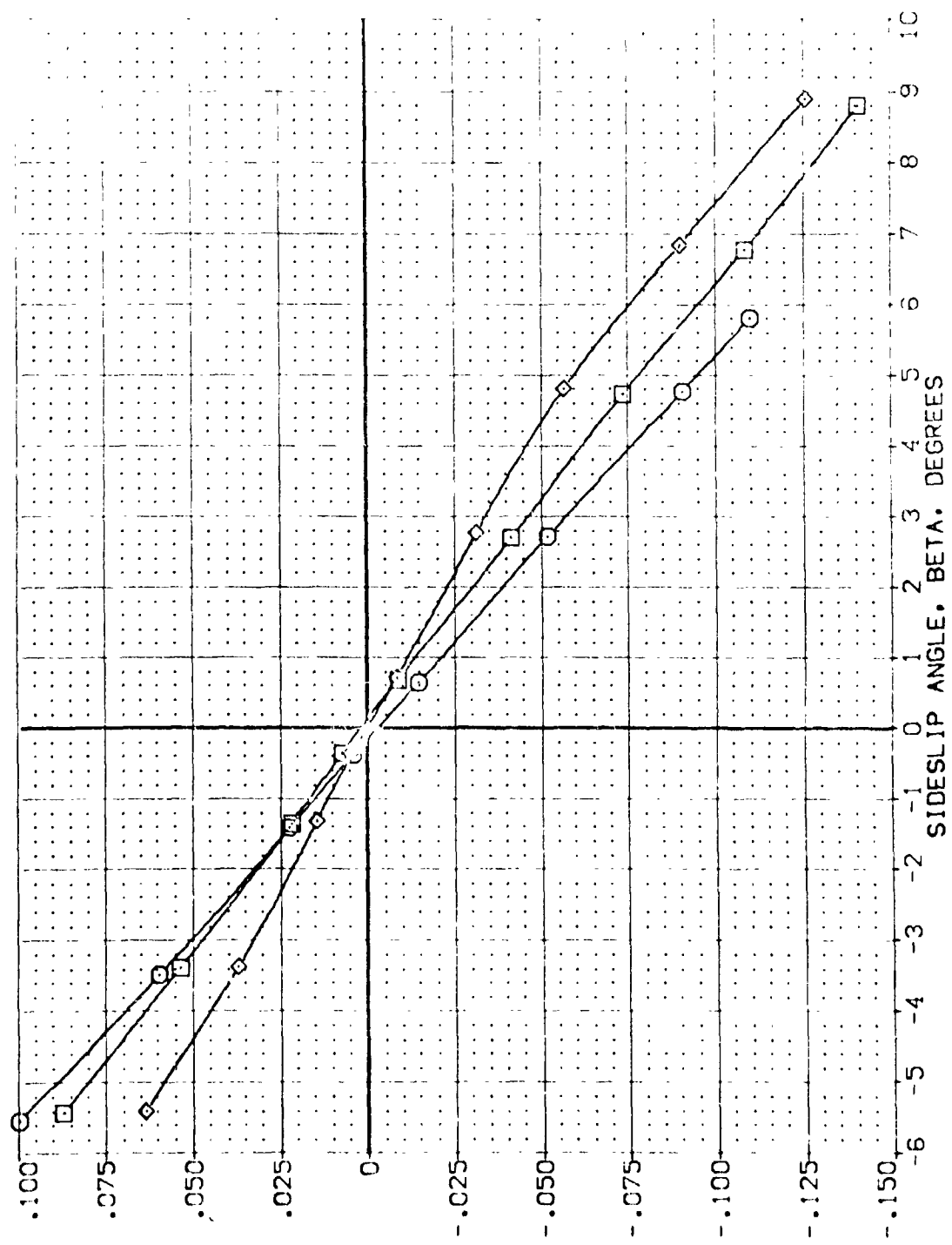
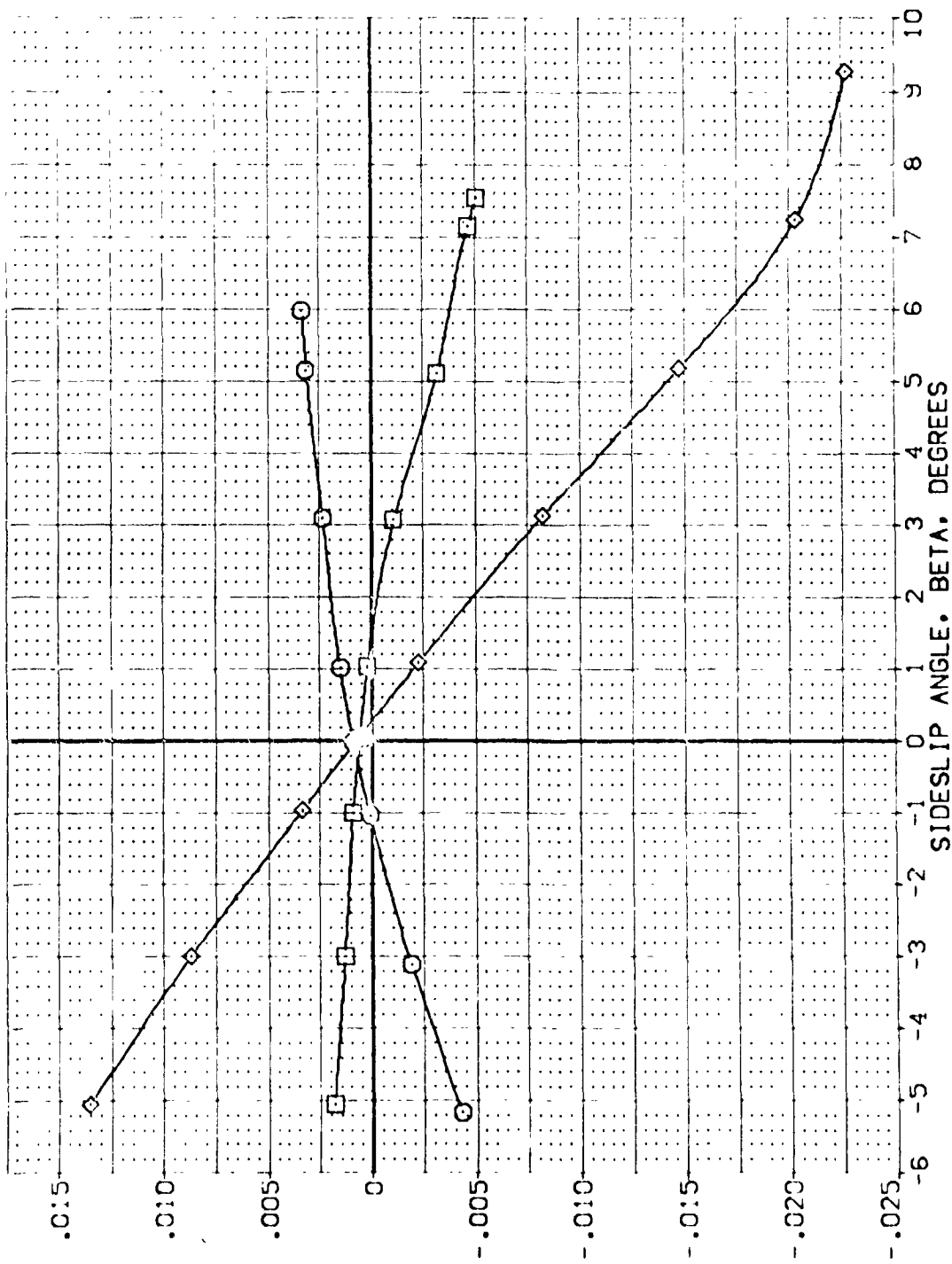


FIG. 12 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 2

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BOFLAP	SPDRK	AIRCON	REFERENCE INFORMATION
(AE-025)	ARC 97-747 CAS33 B C M F V	.000	-11.700	25.000	.000	SREF 2.4210 SQ.FT.
(AE-026)	ARC 97-747 CAS33 B C M F V	10.000	-11.700	25.000	.000	LREF 14.2440 IN.
(AE-027)	ARC 97-747 CAS33 B C M F V	20.000	-11.700	25.000	.000	BREF 23.0004 IN.
						WREF 32.0010 IN.
						YREF 11.0000 IN.
						ZREF 11.2500 IN.
						SCALE .0000



YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

FIG. 12 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 2

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BDF LAP	SPDRBK	AIRRC	REFERENCE INFO	SCALE
(AEP025)	ARC 97-747 CAS38 B C M F V	.000	-11.700	25.000	.000	SREF 2.4210	SCALE
(AEP026)	ARC 97-747 CAS38 B C M F V	10.000	-11.700	25.000	.000	LSREF 14.2440	SCALE
(AEP027)	ARC 97-747 CAS38 B C M F V	20.000	-11.700	25.000	.000	DSREF 23.1100	SCALE
						MSREF 32.1100	SCALE
						VSREF 11.7000	SCALE

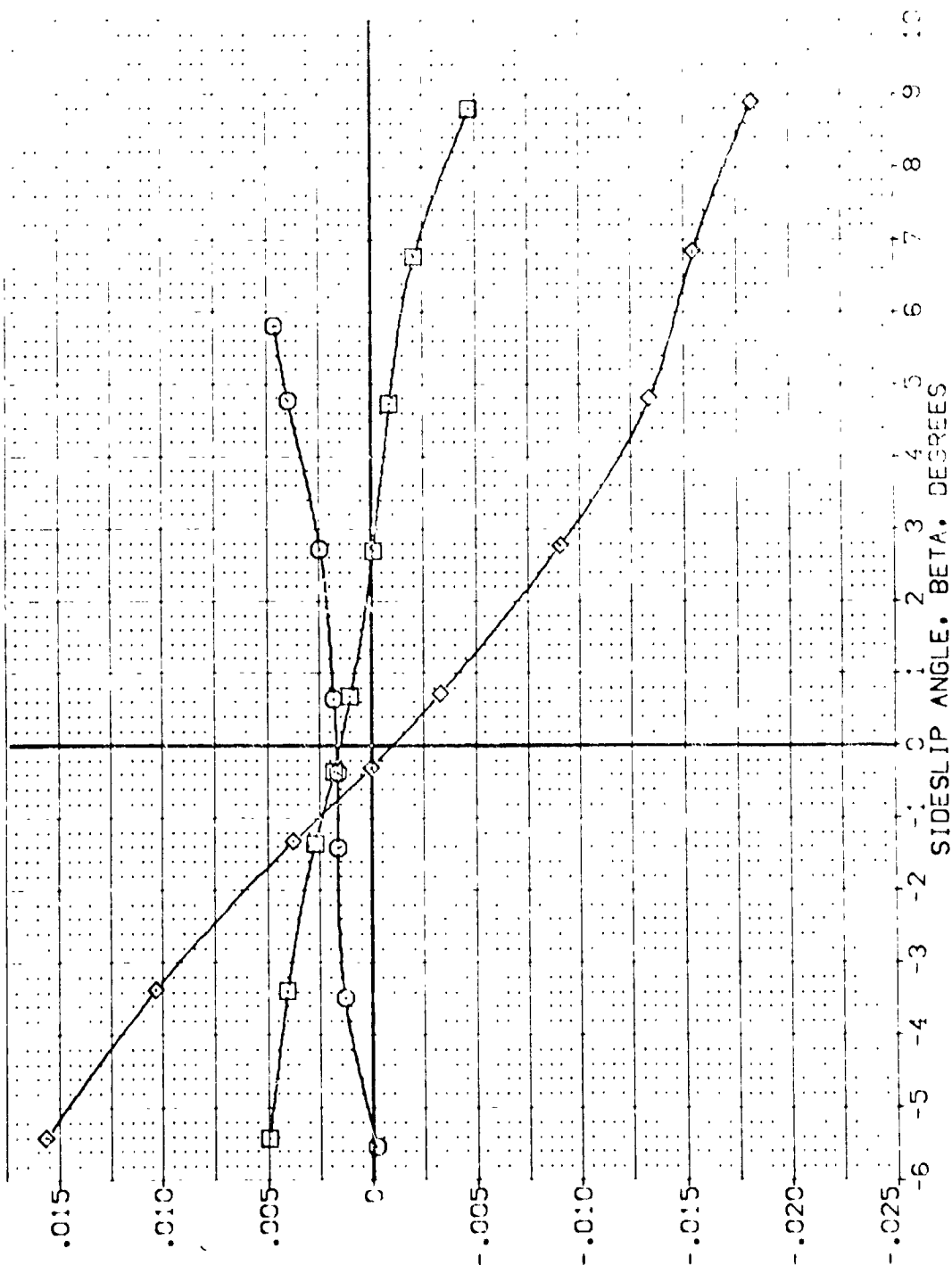


FIG. 12 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 2

(B)MAC = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BOFLAP	SPODBRK	AIRRON	REFERENCE INFORMATION
[AE10025]	ARC 97-747 CAS28 B C M F V	.000	-11.700	25.000	.000	SREF 2.4210 SQ.FT.
[AE10026]	ARC 97-747 CAS28 B C M F V	10.000	-11.700	25.000	.000	LREF 14.2740 IN.
[AE10027]	ARC 97-747 CAS28 B C M F V	20.000	-11.700	25.000	.000	EREF 29.1004 IN.
						YMRP 32.3010 IN.
						ZMRP .0000 IN.
						SCALE 11.2500 IN.
						SCALE .0000

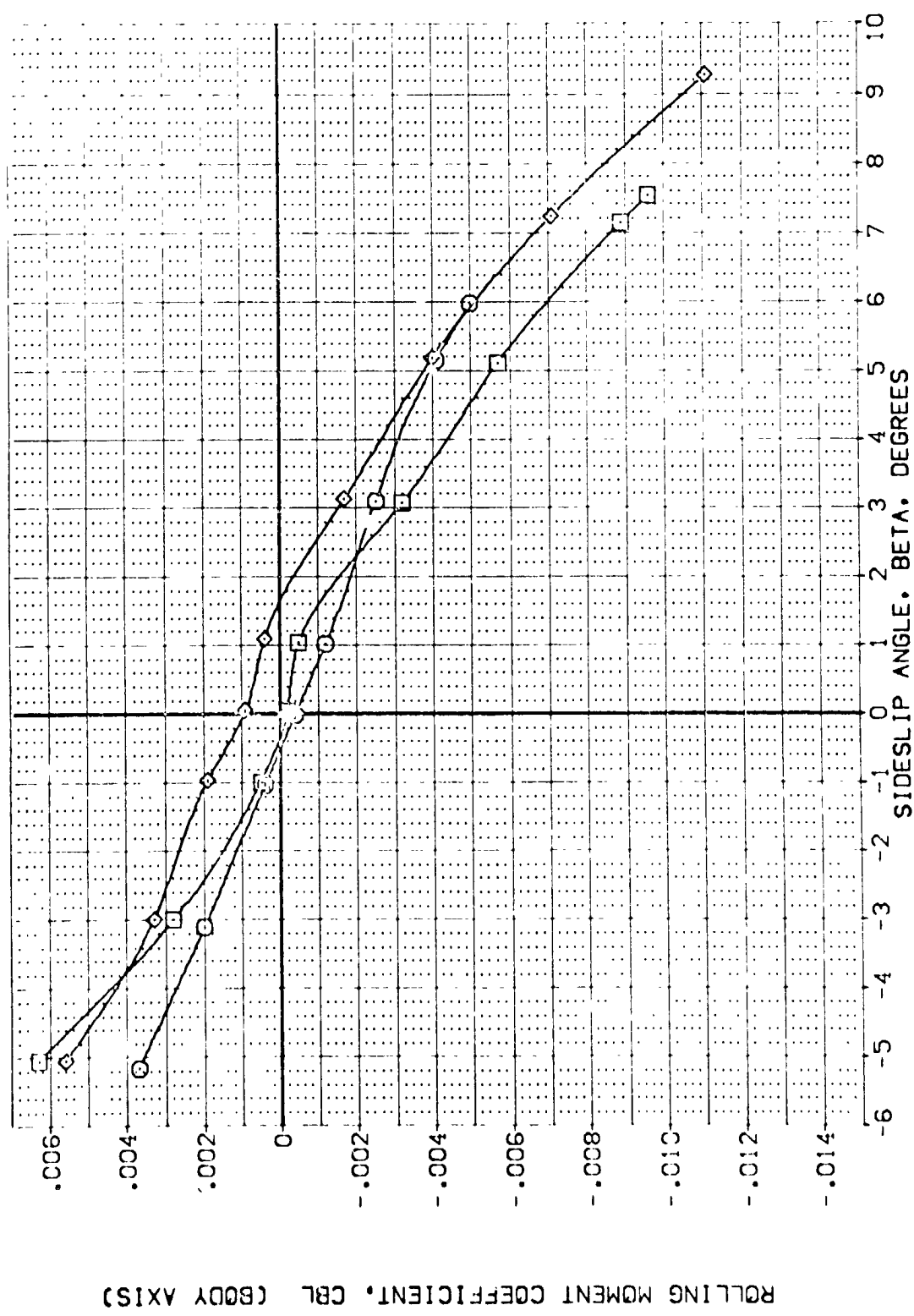


FIG. 12 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 2

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BOFLAP	SPOOR	AIRLON	REFERENCE INCHES
[AEP025]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	2.42
[AEP026]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	14.20
[AEP027]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	28.40
[AEP028]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	56.80
[AEP029]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	113.60
[AEP030]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	227.20
[AEP031]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	454.40
[AEP032]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	908.80
[AEP033]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	1817.60
[AEP034]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	3635.20
[AEP035]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	7270.40
[AEP036]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	14540.80
[AEP037]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	29081.60
[AEP038]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	58163.20
[AEP039]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	116326.40
[AEP040]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	232652.80
[AEP041]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	465305.60
[AEP042]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	930611.20
[AEP043]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	1861222.40
[AEP044]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	3722444.80
[AEP045]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	7444889.60
[AEP046]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	14889779.20
[AEP047]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	29779558.40
[AEP048]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	59559116.80
[AEP049]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	119118233.60
[AEP050]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	238236467.20
[AEP051]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	476472934.40
[AEP052]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	952945868.80
[AEP053]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	1905891737.60
[AEP054]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	3811783475.20
[AEP055]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	7623566950.40
[AEP056]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	15247133900.80
[AEP057]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	30494267801.60
[AEP058]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	60988535603.20
[AEP059]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	121977071206.40
[AEP060]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	243954142412.80
[AEP061]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	487908284825.60
[AEP062]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	975816569651.20
[AEP063]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	1951633139302.40
[AEP064]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	3903266278604.80
[AEP065]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	7806532557209.60
[AEP066]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	15613065114419.20
[AEP067]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	31226130228838.40
[AEP068]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	62452260457676.80
[AEP069]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	124904520915353.60
[AEP070]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	249809041830707.20
[AEP071]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	499618083661414.40
[AEP072]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	999236167322828.80
[AEP073]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	1998472334645657.60
[AEP074]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	3996944669291315.20
[AEP075]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	7993889338582630.40
[AEP076]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	15987778677165260.80
[AEP077]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	31975557354330521.60
[AEP078]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	63951114708661043.20
[AEP079]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	127902229417322086.40
[AEP080]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	255804458834644172.80
[AEP081]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	511608917669288345.60
[AEP082]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	1023217835338576691.20
[AEP083]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	2046435670677153382.40
[AEP084]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	4092871341354306764.80
[AEP085]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	8185742682708613529.60
[AEP086]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	16371485365417227059.20
[AEP087]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	32742970730834454118.40
[AEP088]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	65485941461668908236.80
[AEP089]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	130971882923337816473.60
[AEP090]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	261943765846675632947.20
[AEP091]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	523887531693351265894.40
[AEP092]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	1047775063386702531788.80
[AEP093]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	2095550126773405063577.60
[AEP094]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	4191100253546810127155.20
[AEP095]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	8382200507093620254310.40
[AEP096]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	16764401014187240508620.80
[AEP097]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	33528802028374481017241.60
[AEP098]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	67057604056748962034483.20
[AEP099]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	134115208113497924068966.40
[AEP100]	ARC 97-747 CAS38 B C M F V: V	.000	-11.700	25.000	.000	268230416226995848137932.80

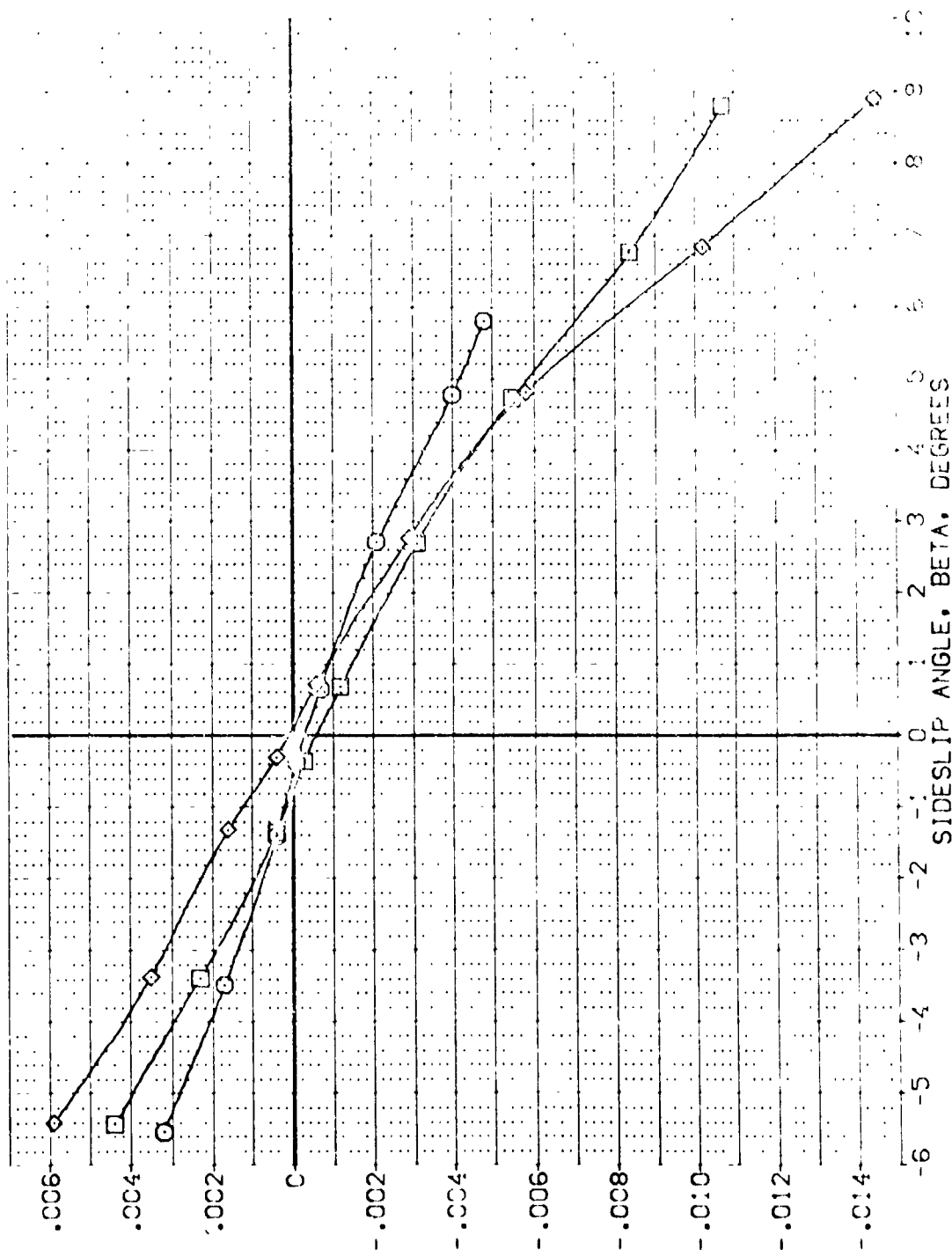


FIG. 12 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 2

(B)ACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BOFLAP	SPOBRK	AIRRON	REFERENCE INFORMATION
[AEK039]	ARC 97-747 CAS38 B C M F V1 V	.000	-11.700	85.000	.000	SREF 2.4210 SQ. FT.
[AEK040]	ARC 97-747 CAS38 B C M F V1 V	10.000	-11.700	85.000	.000	LREF 14.2440 IN.
[AEK041]	ARC 97-747 CAS38 B C M F V1 V	20.000	-11.700	85.000	.000	BREF 28.1004 IN.
						XMED 32.2310 IN.
						YMED 11.2300 IN.
						ZMED 11.2300 IN.
						SCALE .0000

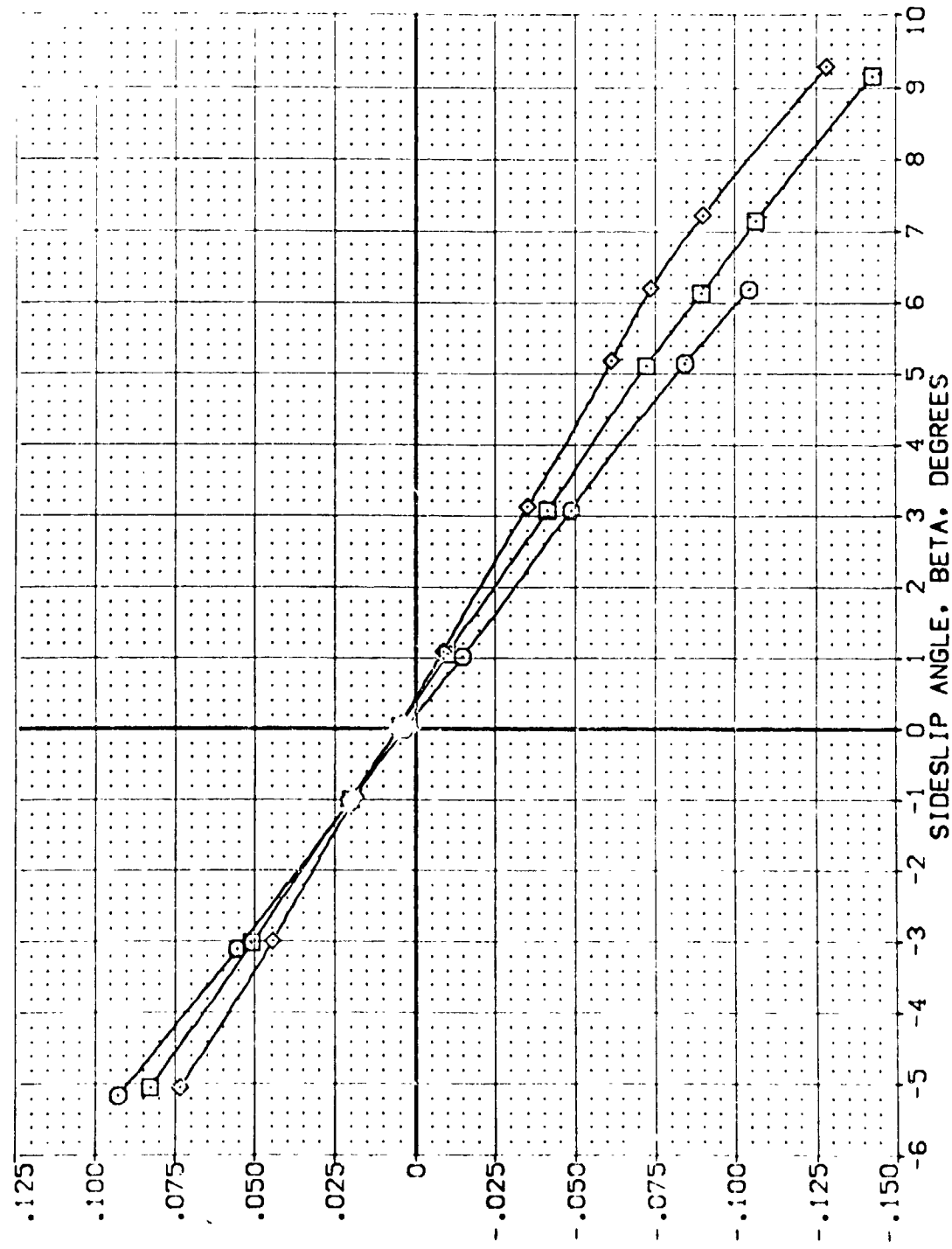


FIG. 13 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 3

(A)MACH = 1.00

SIDE FORCE COEFFICIENT, CY

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BOFLAP	SPEED	AIRLON	REFERENCE INFORMATION
[AE1039]	ARC 97-747 BA538 B C M F V1 V	.000	11.700	85.000	.000	SPEED 2.4210
[AE1040]	ARC 97-747 BA538 B C M F V1 V	10.000	11.700	85.000	.000	SPEED 14.2810
[AE1041]	ARC 97-747 BA538 B C M F V1 V	20.000	11.700	85.000	.000	SPEED 32.1000
						AUTO 11.7000
						ZERO 11.7000
						SCALE 11.7000

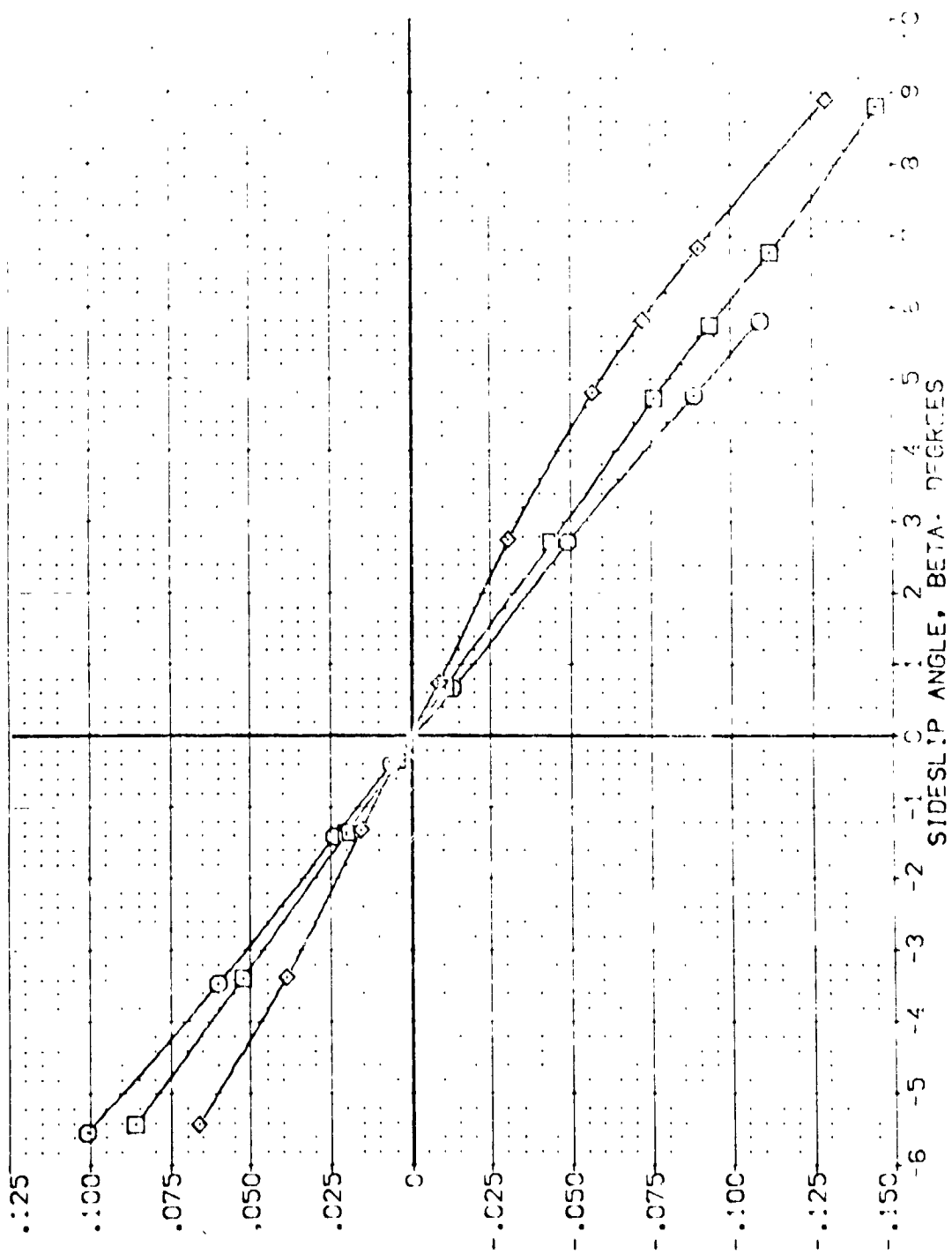


FIG. 13 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PAY

(B)MAC = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BDF LAP	SPEED	ALPHA	REFERENCE INFORMATION
[AF039]	ABC 97-747 B C M E V	.000	-.700	65.000	.000	2.4210
[AF040]	ABC 97-747 B C M E V	.10.000	-.700	65.000	.000	14.2440
[AF041]	ABC 97-747 B C M E V	.20.000	-.700	65.000	.000	29.1000
						30.0000
						2.0000
						SCALE

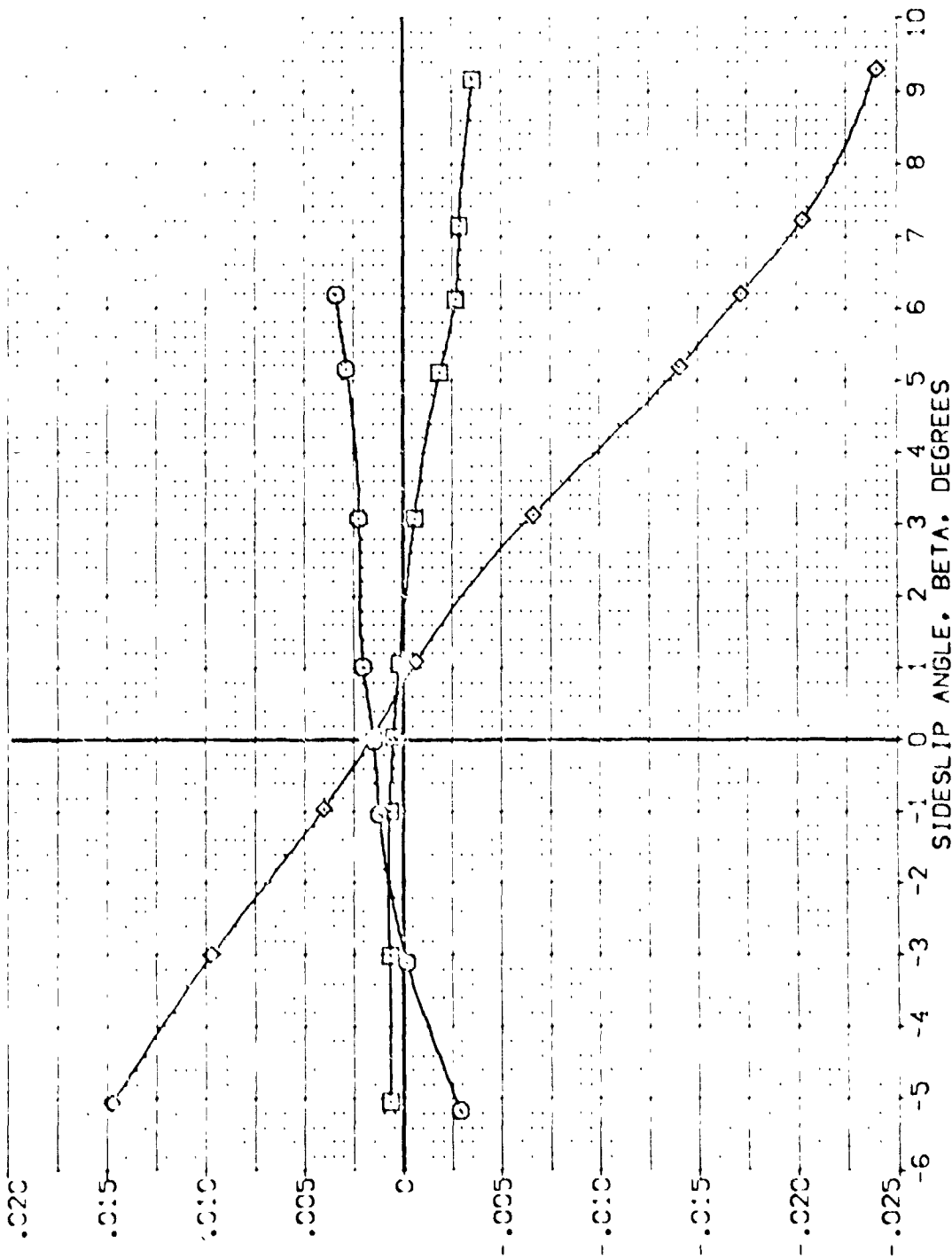


FIG. 13 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 3

(A) $\mu = 1.60$

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [AEK038] ARC 97-747 GAS38 B C M F VI V NOT: R/V/L
 [AEP040] ARC 97-747 GAS38 B C M F VI V NOT: R/V/L
 [AEP041] ARC 97-747 GAS38 B C M F VI V NOT: R/V/L

ALPHA BDF LAP SPOBOM AIRLION
 .000 -11.700 85.000 .000
 10.000 -11.700 85.000 .000
 20.000 -11.700 85.000 .000

REFERENCE INFORMATION
 SREF 2.4212 10.37
 LREF 14.2440 10.37
 BREF 28.0000 10.37
 XREF 32.0000 10.37
 YREF 32.0000 10.37
 ZREF 11.7000 10.37
 SCALE 1.0000

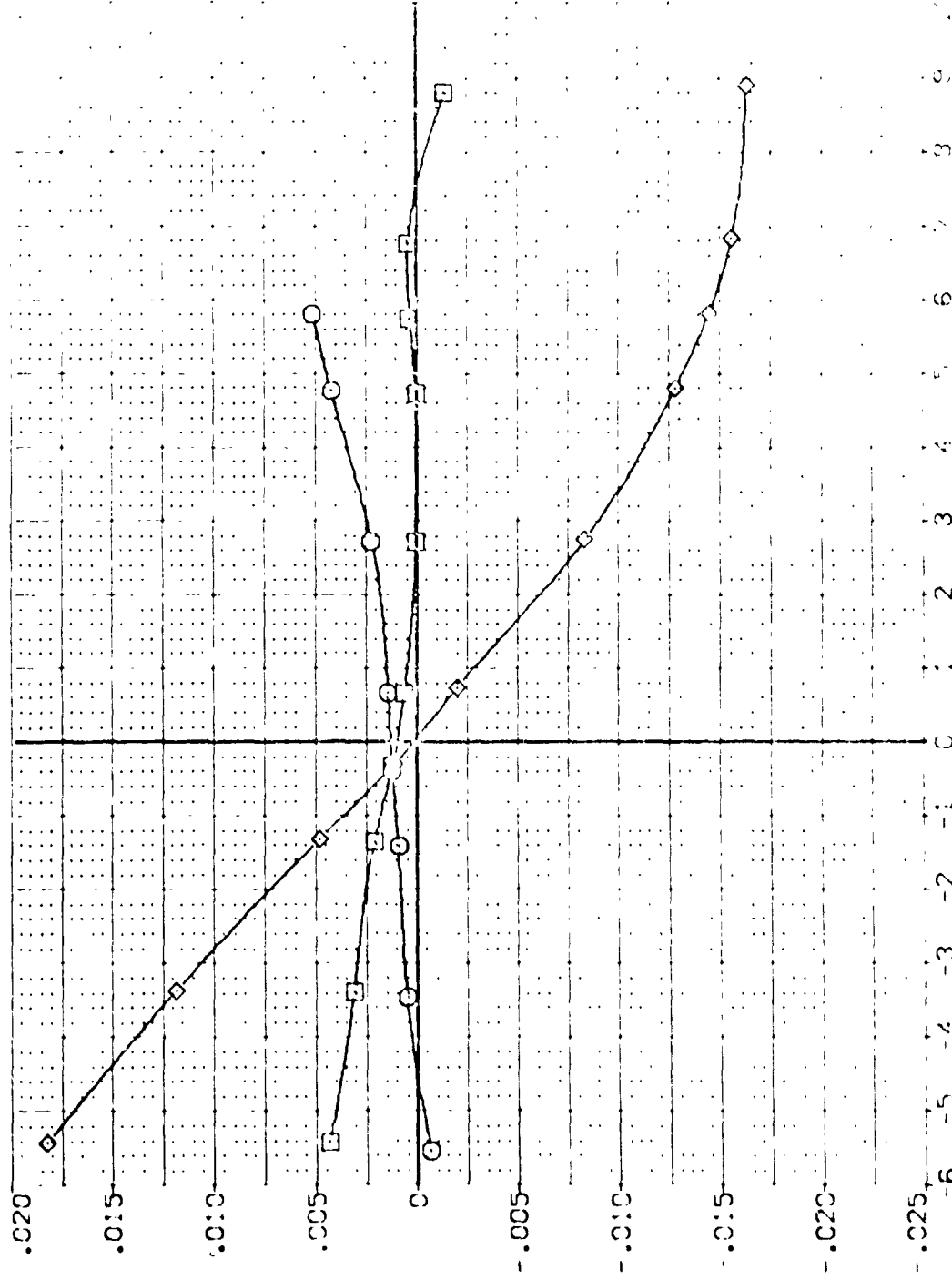


FIG. 13 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 2

(B)MAC = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BOFLAP	SPOBRK	AIRLGN	REFERENCE INFORMATION
[AEK038]	ARC 97-747 DAS38 B C M F VI V	.000	-11.700	65.000	.000	SREF 2.4210 SQ.FT.
[AEK040]	ARC 97-747 DAS38 B C M F VI V	10.000	-11.700	65.000	.000	LREF 14.2140 IN.
[AEK041]	ARC 97-747 DAS38 B C M F VI V	20.000	-11.700	65.000	.000	BREF 32.1000 IN.
						XREF 65.0000 IN.
						YREF 11.1500 IN.
						SCALE 10.000

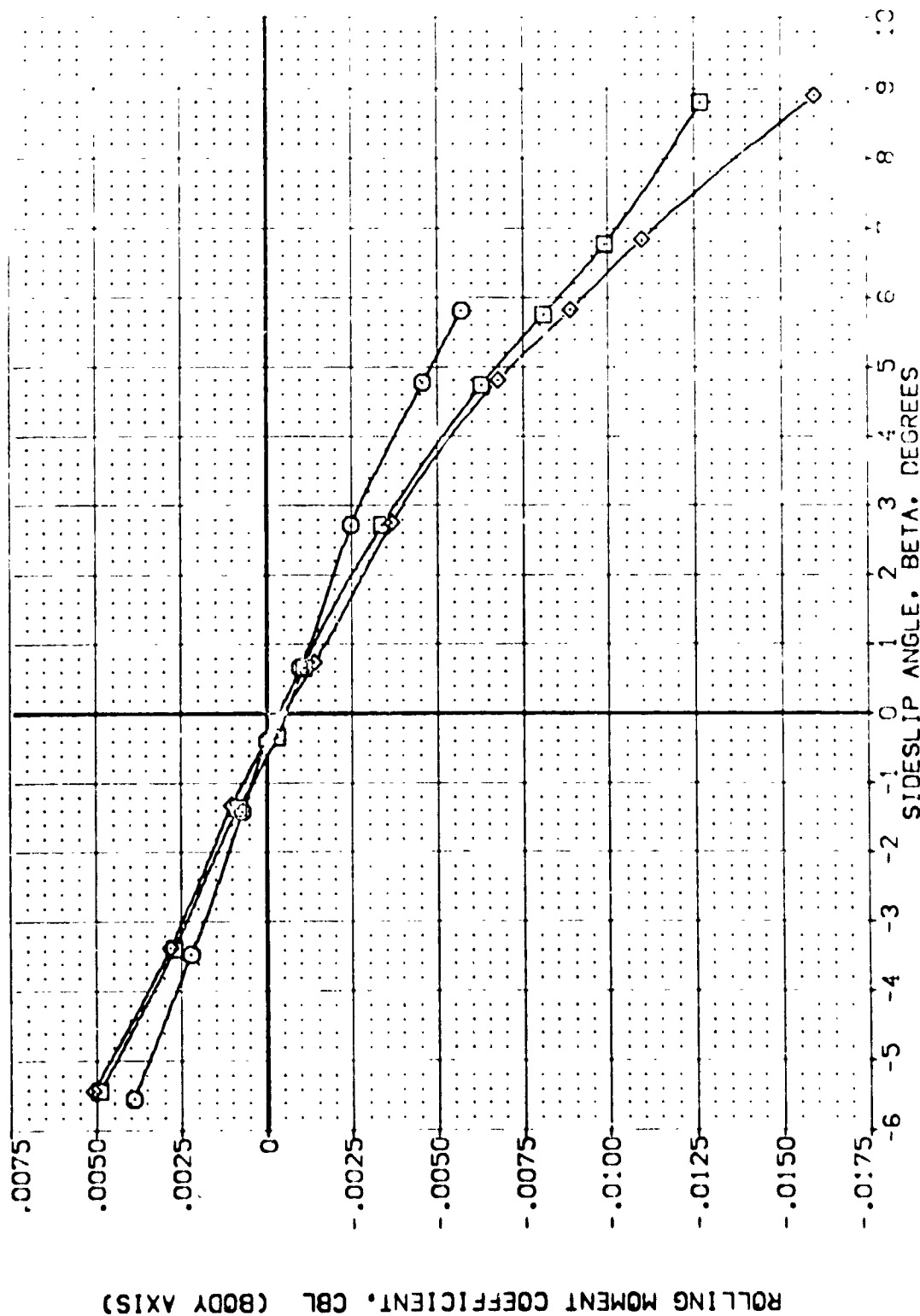


FIG. 13 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 3

(B)WACH = 2.00

ARC 97-747 0A53B B C M F W1 V NOM. RN/L (AEK012)

SYMBOL C	MACH 1.600	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION			
		ELEVON -11.700	AILRON SPDRK	ELEV-L .000	.000	AEK012	ALPHA 20.000	AEK013	10.000	SREF REF	2.4210
		BOFLAP RUDDER	ELEV-R .000		.000	AEK014				14.2410	50. FT.
										28.1004	
										32.3010	
										.0000	
										1.2500	
										.0300	SCALE

SIDE FORCE COEFFICIENT DERIVATIVE WITH BETA, CYBETA, PER DEGREE

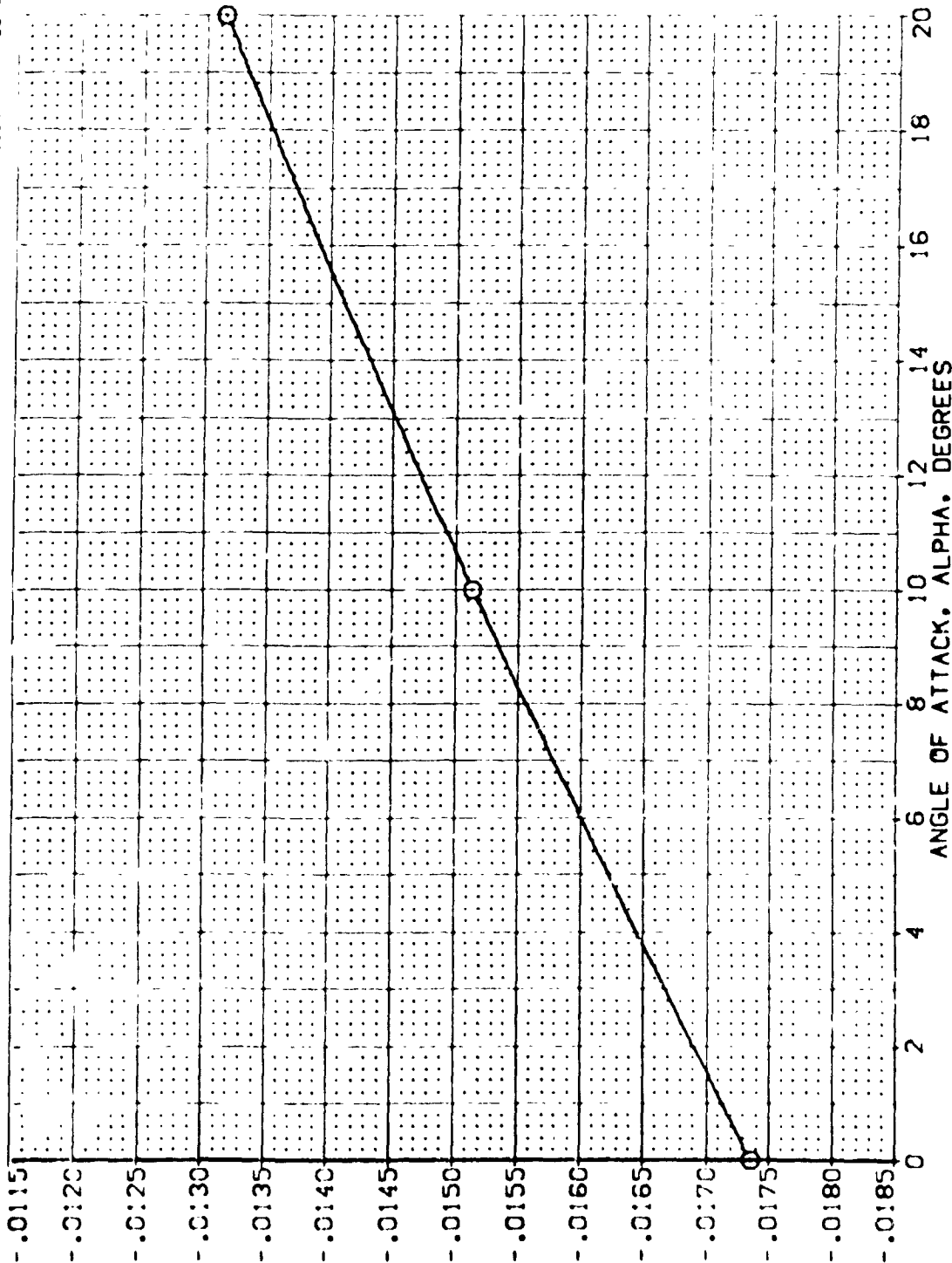


FIG. 14 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 1

ARC 97-747 0A53B B C M F W1 V NOM. RN/L (AEK012)

SYMBOL MACH 2.002

PARAMETRIC VALUES
ELEVON .000 AILRON
90° FLAP -11.700 SPDRM
RUDDER .000 ELEV-L
ELEV-R .000

DATA SOURCE
ALPHA 20.000

DATASET AEK012
AEK014

REFERENCE INFORMATION
SREF 2.4210
UREF 14.2440
BREF 28.0000
XREF 32.3000
YREF .0000
ZREF 11.2500
SCALE .0300

SIDE FORCE COEFFICIENT DERIVATIVE WITH BETA, CYBETA, PER DEGREE

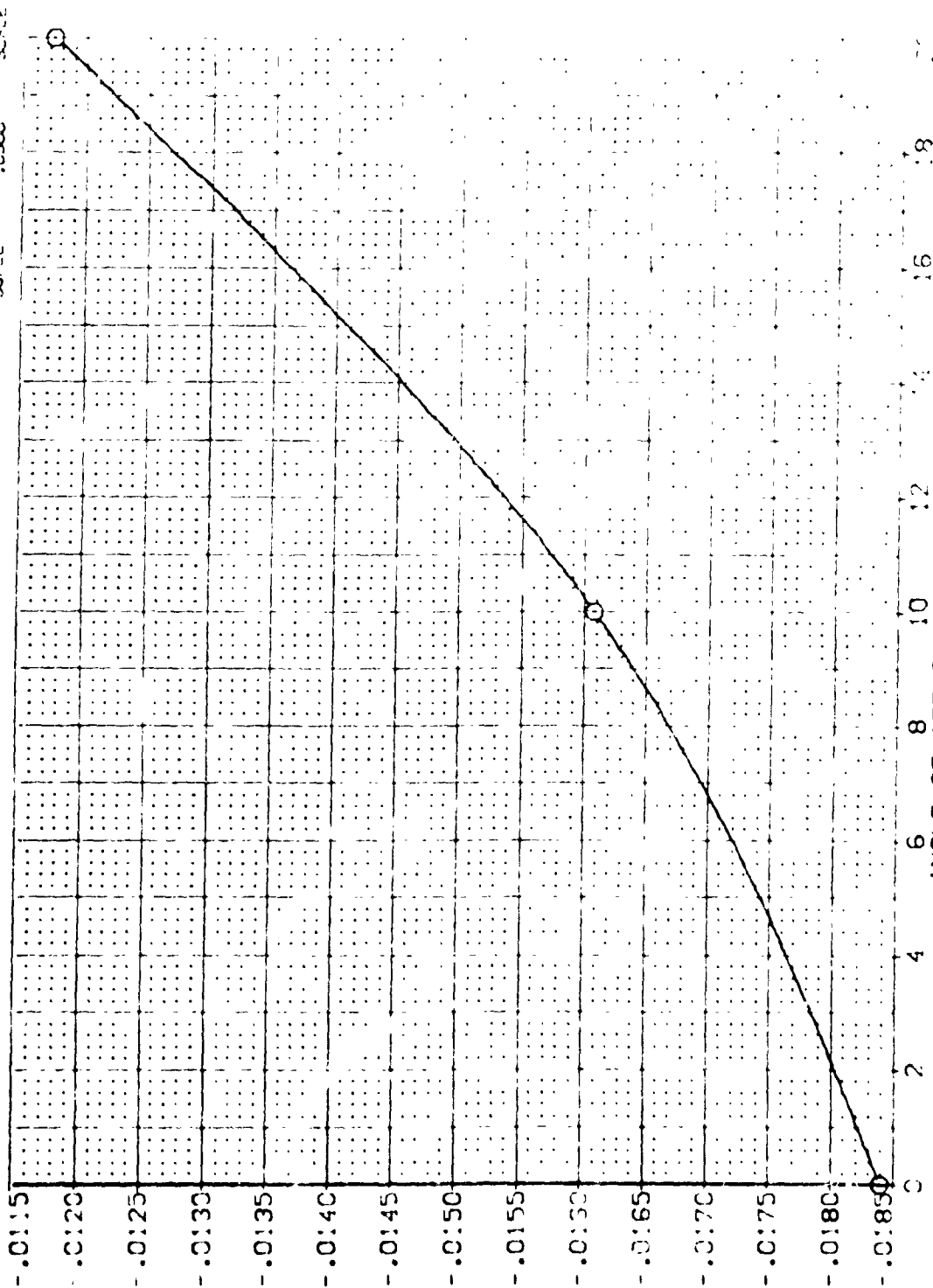


FIG. 14 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 1

ARC 97-747 0A538 B C M F W1 V NOM. RN/L (AEK012)

SYMBOL
○

YAW-
1.600

PARAMETRIC VALUES
ELEVON .000 AILRON .000
BDF LAP -11.700 SPOBRK .000
RUDDER .000 ELEV-L .000
ELEV-R .000

DATA SOURCE
ALPHA .000 DATASET AEK012
AEK013 20.000 AEK014

ALPHA 10.000
DATASET AEK013
SREF 10.000
LREF 10.000
BOXE 10.000
XMRP 10.000
YMRP 10.000
ZMRP 10.000
SCALE 10.000

REFERENCE INFORMATION
2.4210
14.2440
28.1004
32.3018
11.2500
10.0000

YAWING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CYMBET, PER DEGREE

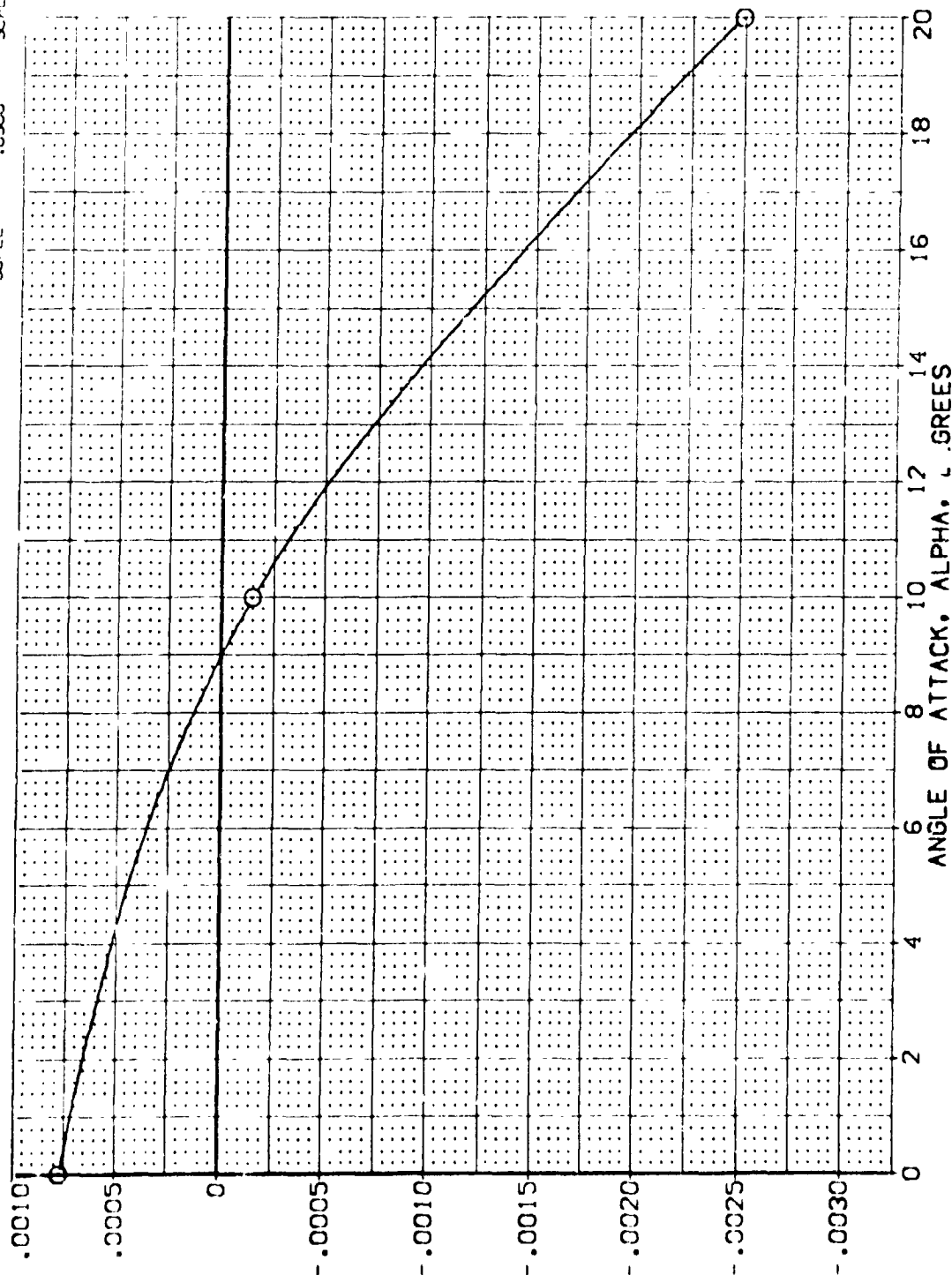


FIG. 14 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 1

ARC 97-747 0A538 B C M F W1 V NOM. RN/L (AEK012)

SYMBOL
O

MACH
2.002

PARAMETRIC VALUES
ELEVON .000 AILRON
BDFLAP -11.700 SPOBRK
RUDDER .000 ELEV-L
ELEV-R .000

DATA SOURCE
ALPHA
20.000

DATASET
AEK012
AEK014

ALPHA
10.000

REFERENCE INFORMATION
SREF 2.4210
LREF 14.2440
BREF 28.1004
XMRP 32.3010
YMRP .0000
ZMRP 11.2500
SCALE .0000

YAWING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CYNBET, PER DEGREE

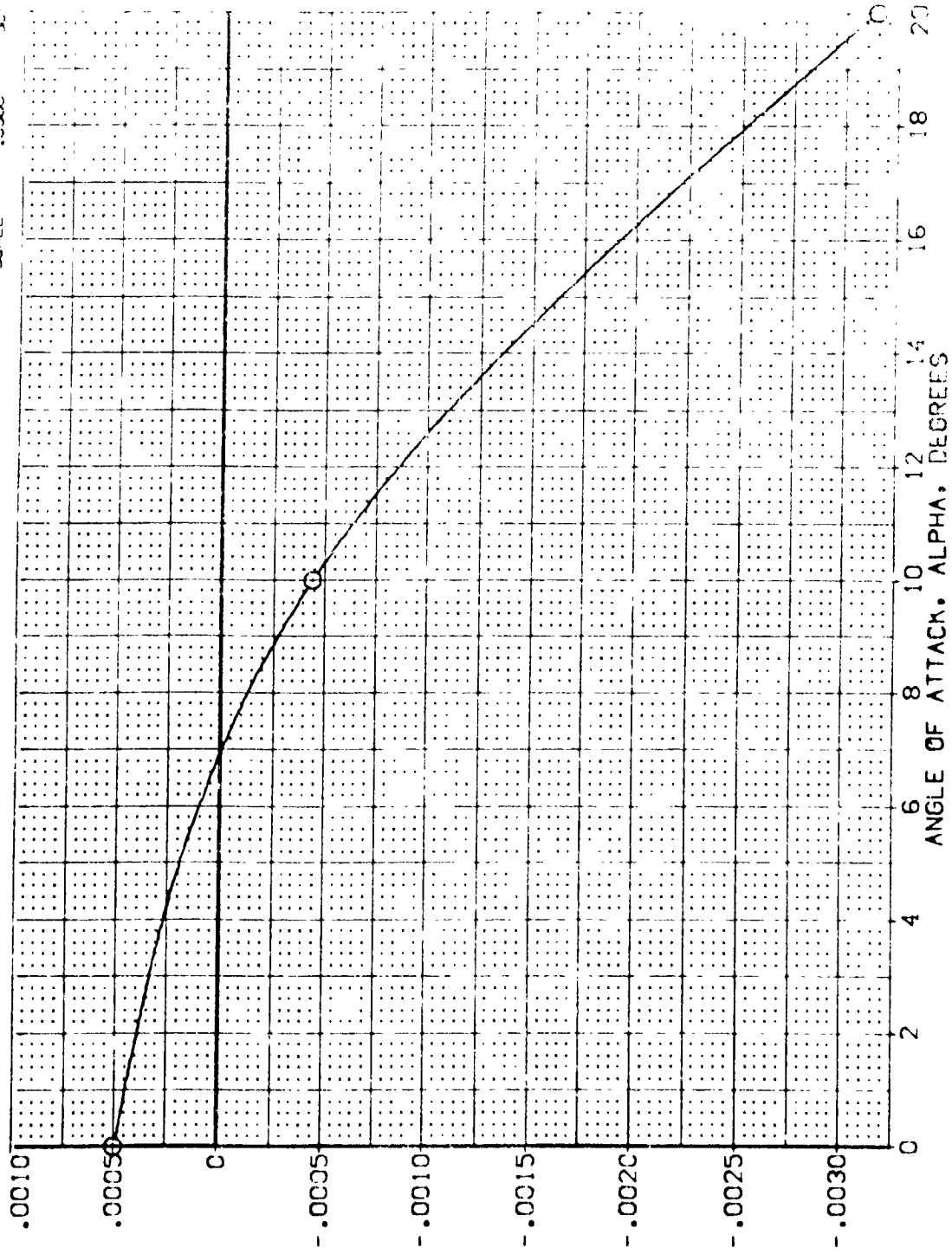


FIG. 14 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART I

ARC 97-747 0A53B B C M F W I V NOM. RN/L (AEKO12)

SYMBOL	MACH	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION			
()	1.600	ELEVON	.000	AIRPCN	.000	DATASET	ALPHA	SREF	LREF	2.4210	SO.F.T.		
		BOF_LAP	-11.700	SPOBRK	55.000	AEKO12	10.000	BREF	14.2440				
		RUDER	.000	ELEV-L	.000	AEKO14	20.000	XMRP	28.1004				
		ELEV-R	.000					YMRP	32.3010				
								ZMRP	11.2500				
								SCALE	.0300				

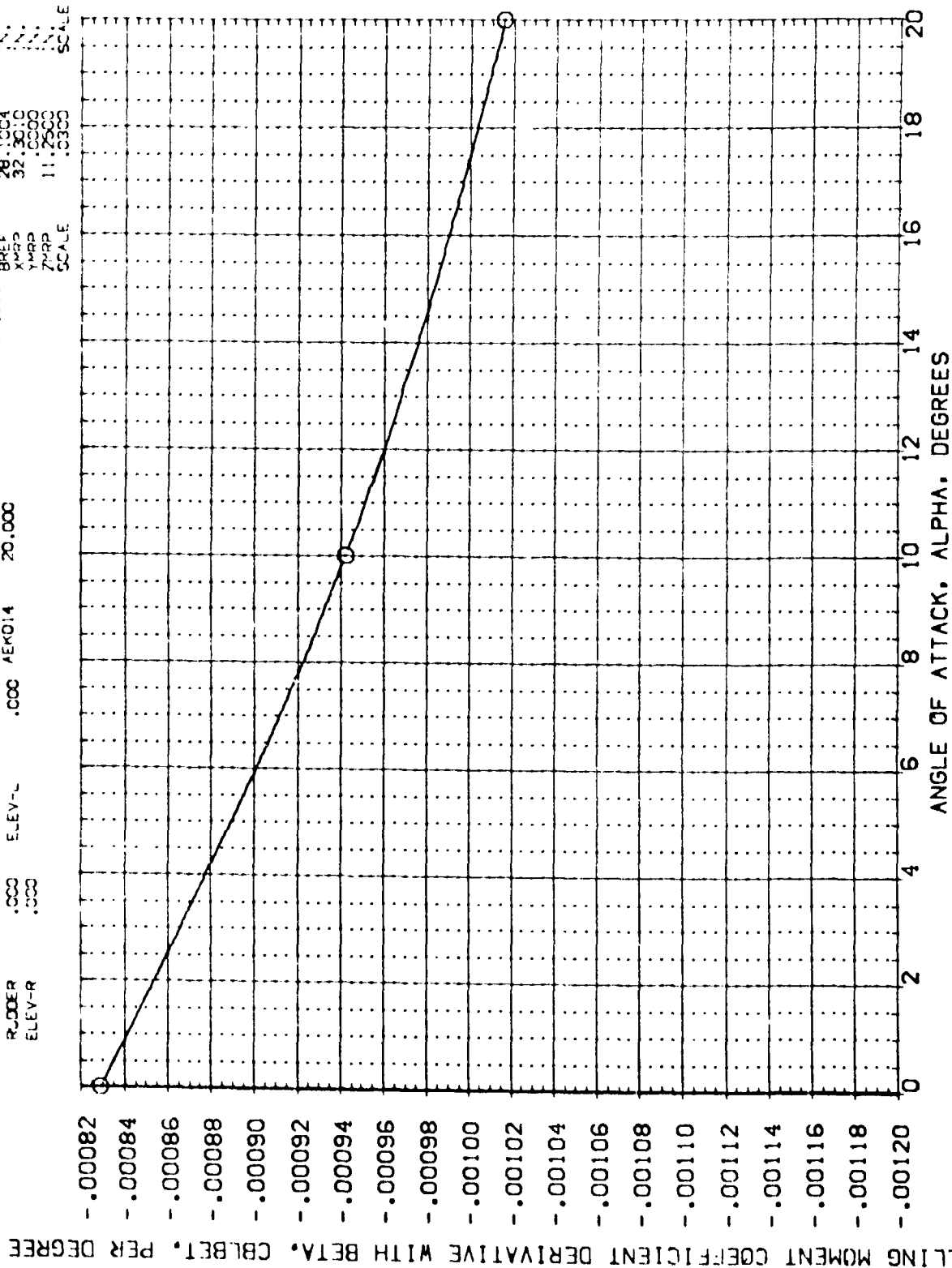


FIG. 14 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 1

ARC 97-747 0A53B B C M F W1 V NOM. RN/L (AEKO:2)

SYMBOL MACH 2.002
 REF 2.1210
 REF 14.2440
 REF 28.1000
 REF 32.3000
 REF 11.2000
 REF 10.3000
 SCALE

PARAMETRIC VALUES
 ELEVON .000 AILRON
 BOFLAP -11.700 SPDRK
 RUDDER .000 ELEV-L
 ELEV-R .000

DATA SOURCE
 ALPHA .000
 AEKO:2 20.000
 AEKO:3 10.000
 AEKO:4 .000

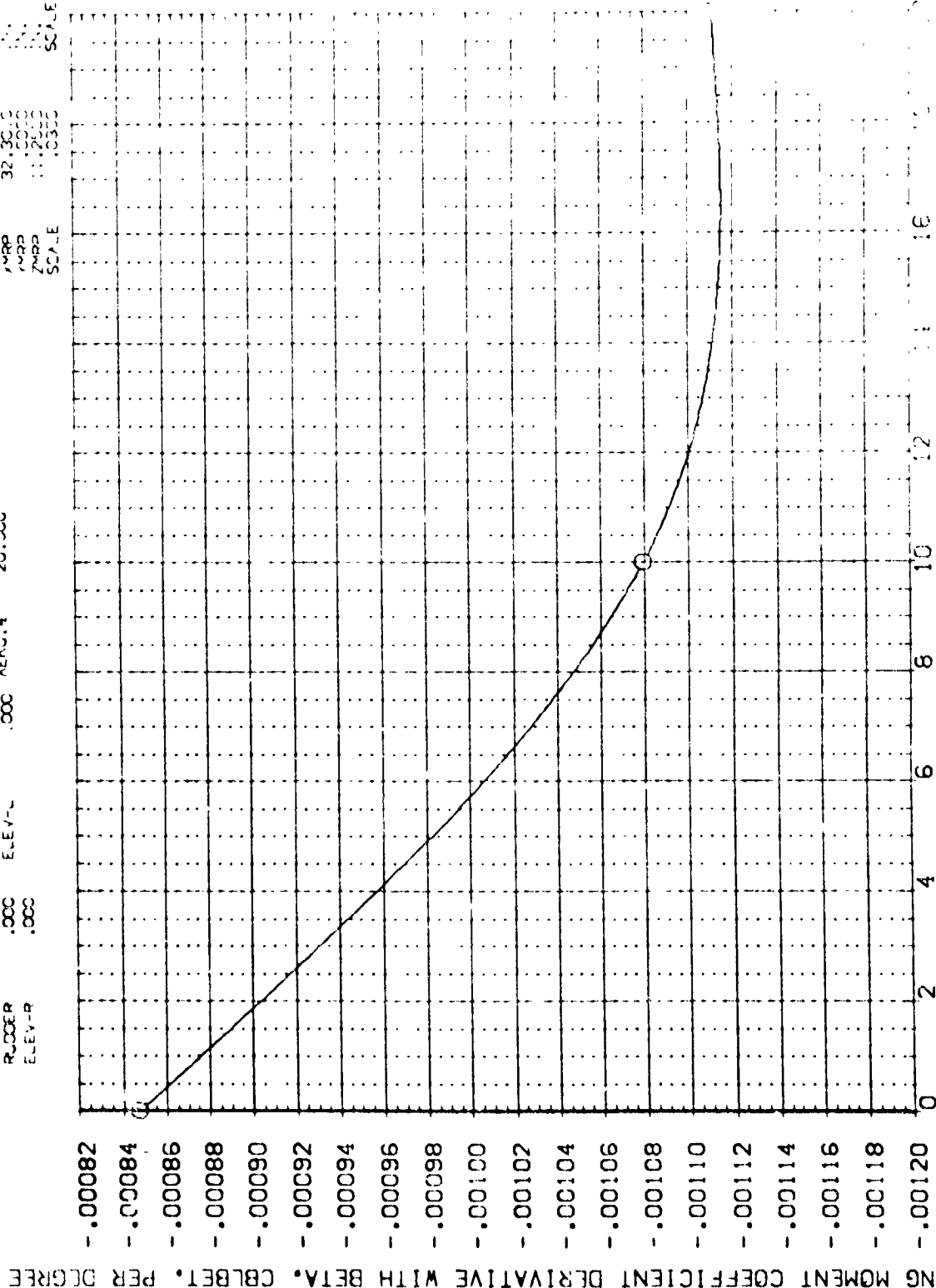


FIG. 14 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 1

ARC S7-747 0A53B B C M F W1 V NOM. RN/L (AEK025)

SYMBOL	MACH	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION			
○	1.600	ELEVON	.000	AILIRON	.000	DATASET	ALPHA	SREF	2.4210	SC. FT.			
		BD FLAP	-11.700	SPOBRK	25.000	AEK025	10.000	LRFF	14.2440	N.			
		RUDDER	.000	ELEV-L	.000	AEK027	20.000	BRFF	28.1004	N.			
		ELEV-R	.000					XMRP	32.9010	N.			
								YMRP	.0000	N.			
								ZMRP	11.2500	N.			
								SCALE	.0300	SCALE			

SIDE FORCE COEFFICIENT DERIVATIVE WITH BETA, CYBETA, PER DEGREE

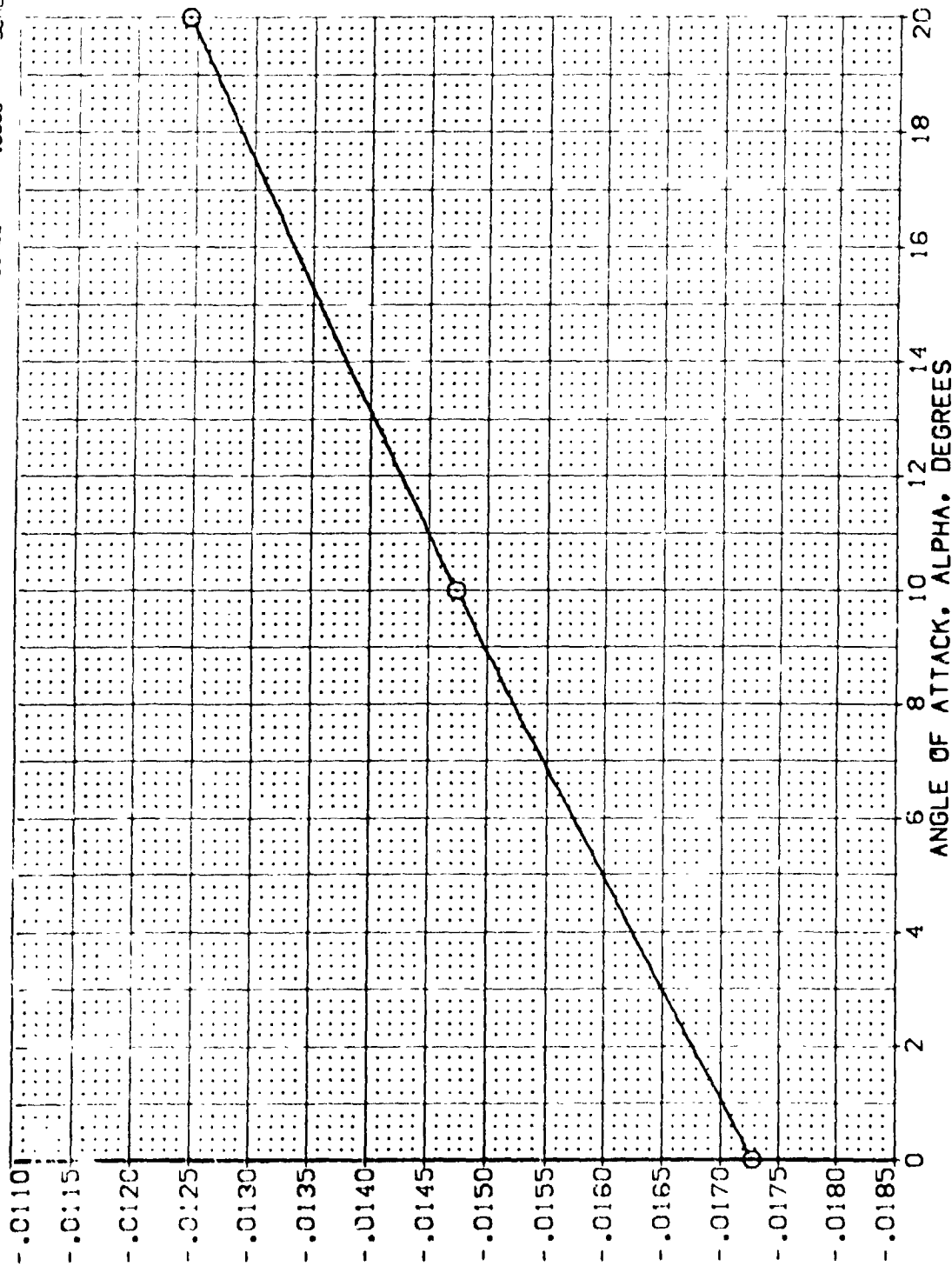


FIG. 15 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 2

SYMBOL

MACH 2.002

ELEVON
ELEVON
ELEVON

PARAMETRIC VALUES
AILRON
SPOBRK
ELEV-L

DATA SOURCE
ALPHA
AEK025
AEK027

DATA SOURCE
ALPHA
AEK025
AEK027

DATA SOURCE
ALPHA
AEK025
AEK027

DATA SOURCE
ALPHA
AEK025
AEK027

DATA SOURCE
ALPHA
AEK025
AEK027

SIDE FORCE COEFFICIENT DERIVATIVE WITH BETA, CYBETA, PER DEGREE

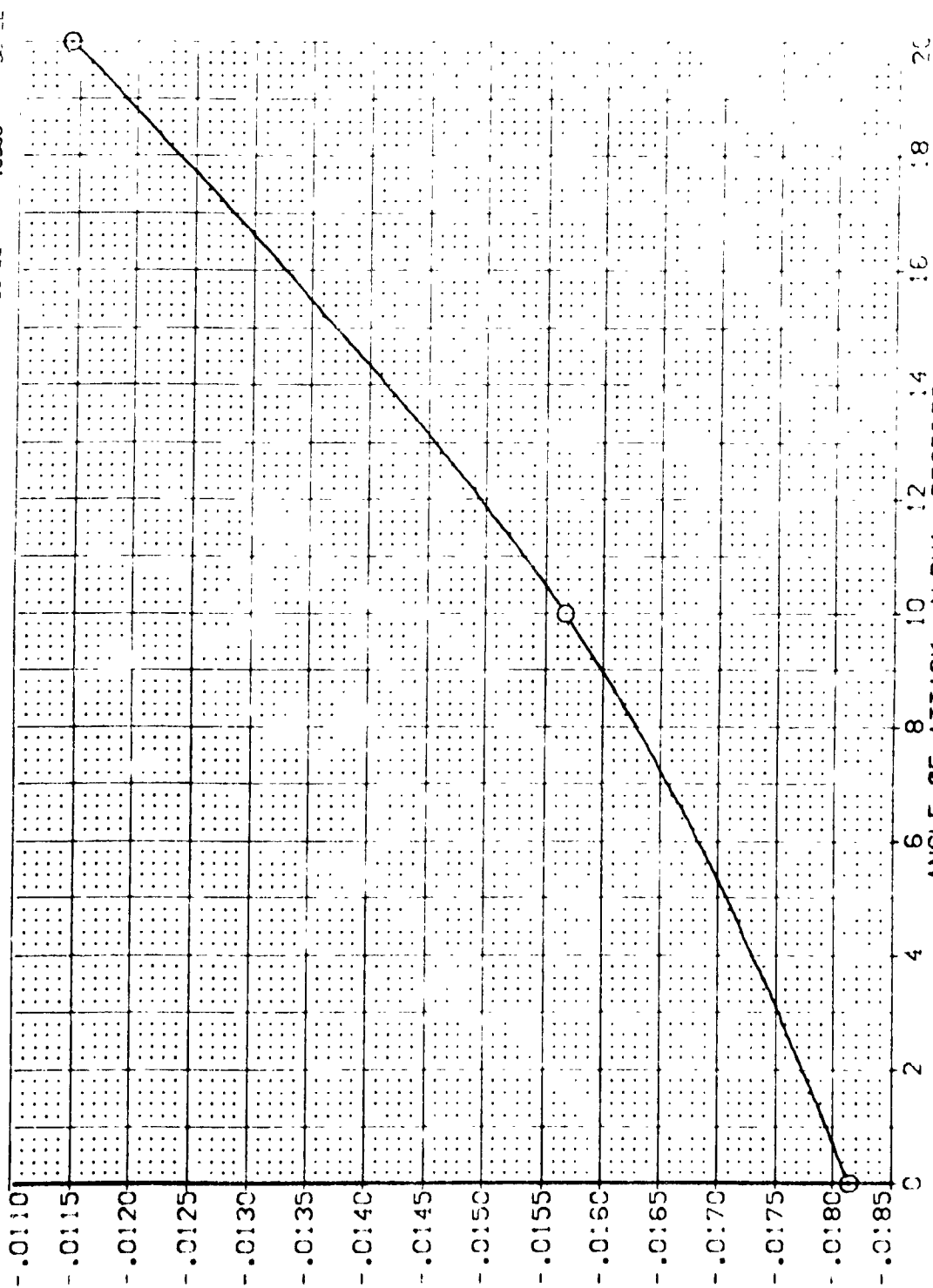


FIG. 15 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 2

SYMBOL	MACH	PARAMETRIC VALUES				DATA SOURCE		REFERENCE INFORMATION			
		ELEVON	AILTRON	SPDBRK	ELEV-L	.000	AEK025	AEK026	AEK027	AEK028	AEK029
0	1.600	BOFLAP	-11.700	SPDBRK	ELEV-L	25.000	AEK025	AEK026	AEK027	AEK028	AEK029
		RUDER	.000	ELEV-L		.000	AEK025	AEK026	AEK027	AEK028	AEK029
		ELEV-R	.000			.000	AEK025	AEK026	AEK027	AEK028	AEK029

SREF	2.4210	SQ.FT.
LREF	14.2440	IN.
BREF	28.1004	IN.
XMRD	32.3010	IN.
YMRD	.0000	IN.
ZMRD	11.2500	IN.
SCALE	.0300	SCALE

YAWING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CYNBET, PER DEGREE

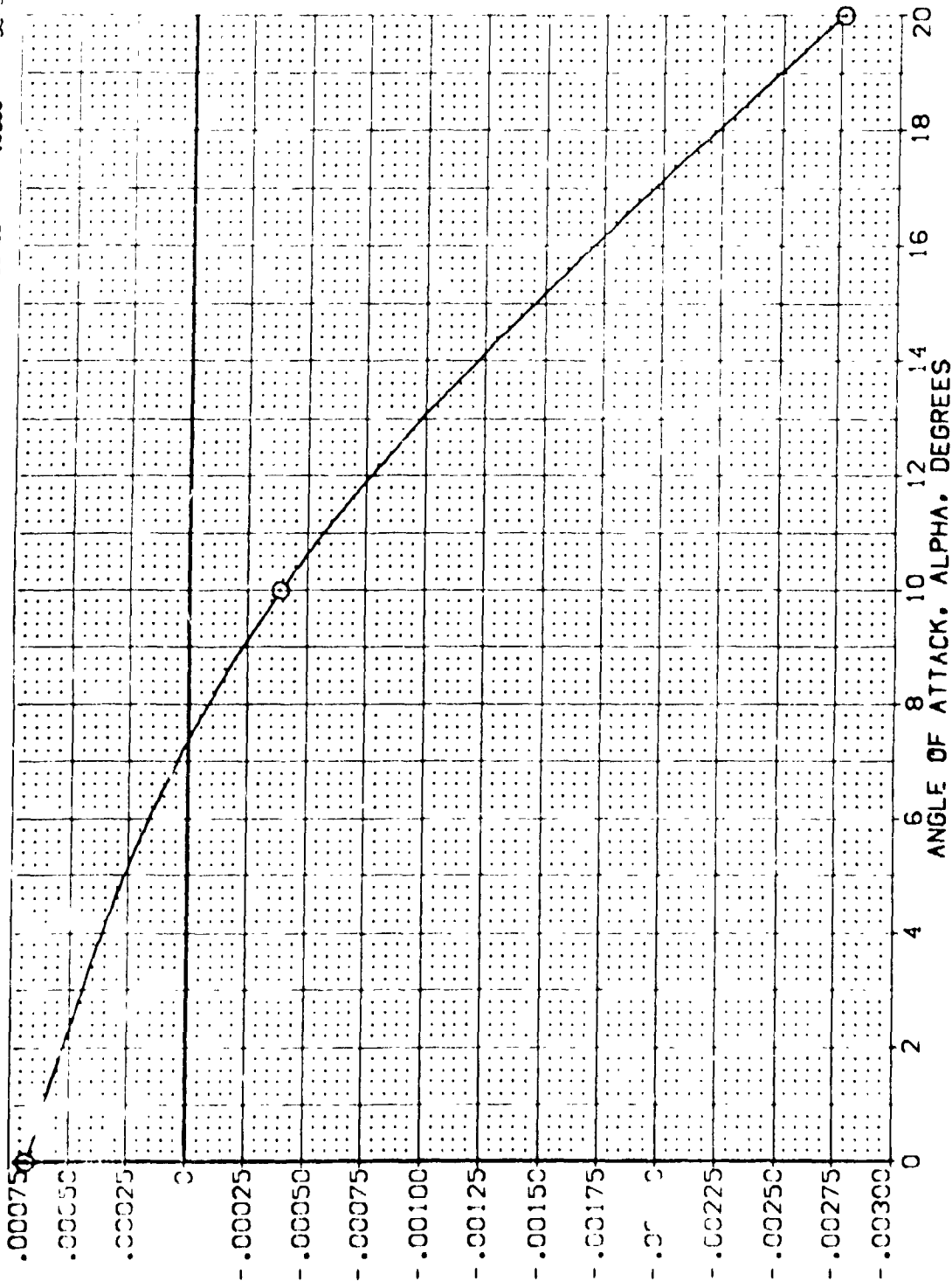


FIG. 15 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 2

SYMBOL	MACN	2.002	PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
○	ELEVON	.000	AILRON	.000	ALPHA	10.000	SPEC	2.4710
	BOFLAP	-11.700	SPOBRK	25.000	AEK025	.000	DEF	14.2440
	RUDER	.000	ELEV-L	.000	AEK026	20.000	BRF	28.1004
	ELEV-R	.000			AEK027		AMP	32.3000
							VMP	30.0000
							ZMP	11.2500
							SCALE	.0300

YAWING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CYNBET, PER DEGREE

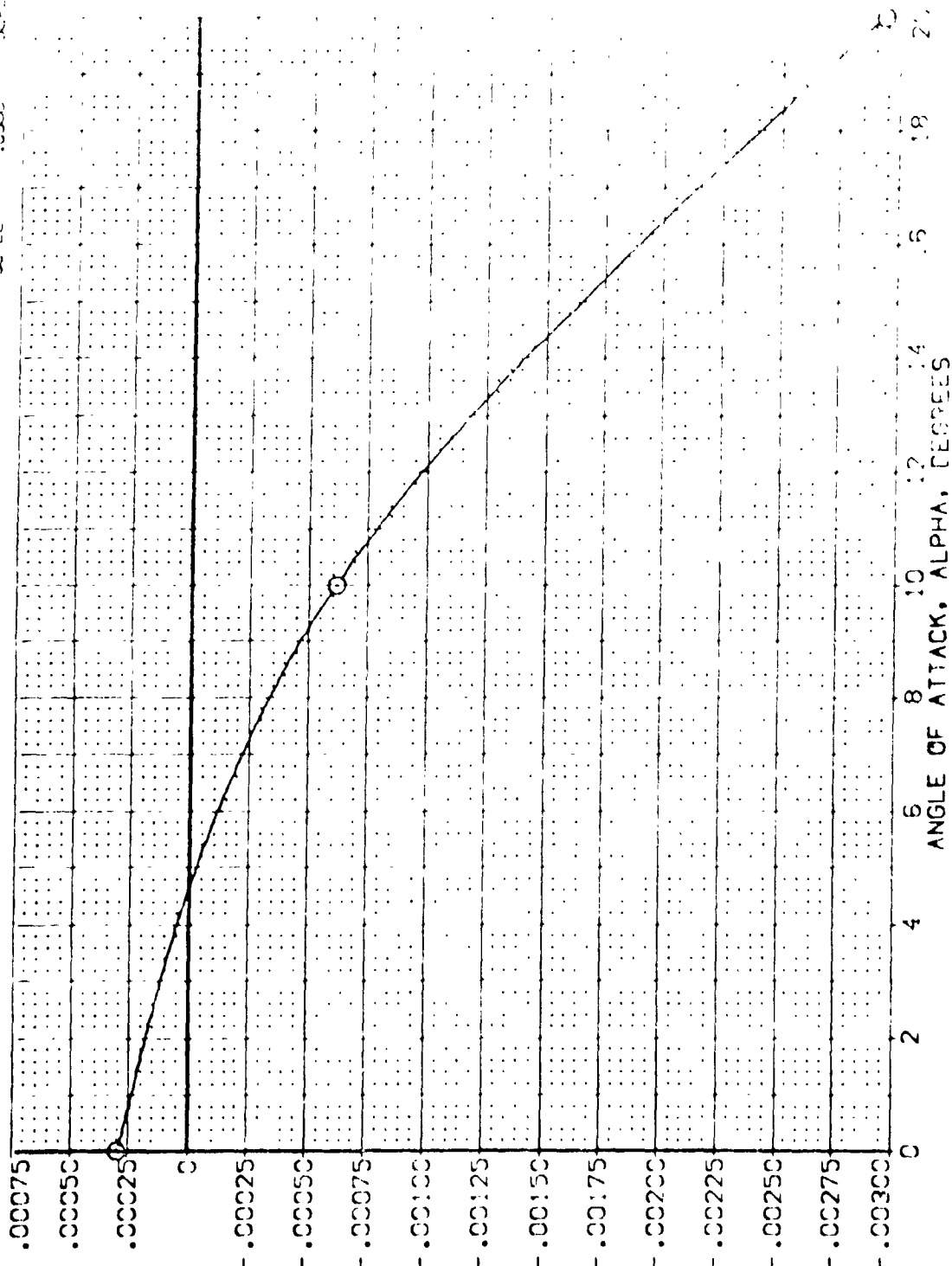


FIG. 15 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 2

SYMBOL: 1.600
 PARAMETRIC VALUES: ELEVON .000 ATTIRON .000 DATASET ALPHA .000 DATA SOURCE ALPHA .000
 BDFLAP -11.700 SPOB-K .000 AEK025 25.000 AEK026 10.000
 RUDDER .000 ELEV-L .000 AEK027 20.000
 ELEV-R .000
 REFERENCE INFORMATION: SREF 2.4210 SO.FT.
 REF 14.7240
 SREF 28.1254
 YREF 32.3000
 ZREF 11.7250
 SCALE 1.0000

ROLLING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CBLBET, PER DEGREE

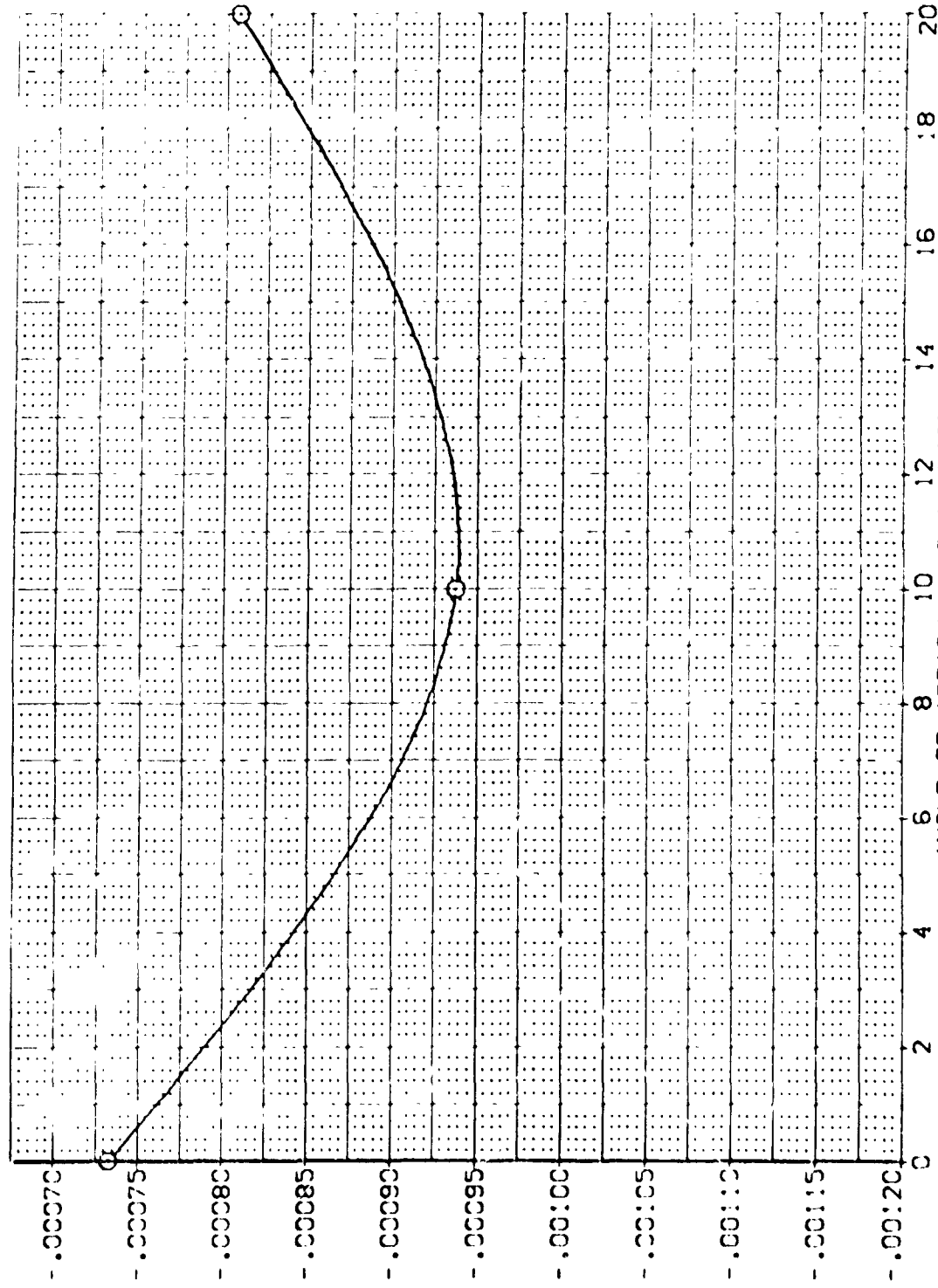


FIG. 15 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 2

SYMBOL

MACH

2.002

PARAMETRIC VALUES

ELEVON
BOFLAP
RUDDER
ELEV-R

.000
-11.700
.000
.000

.000
25.000
.000
.000

DATA SOURCE

ALPHA
AEK025
AEK027

20.000

ALPHA
AEK026

10.000

SPREF
BREF
XREF
YREF
ZREF
SCALE

2.4210
14.2440
28.1004
32.3013
11.7500
1.0000

REFERENCE INFORMATION

SCALE

ROLLING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CBLBET, PER DEGREE

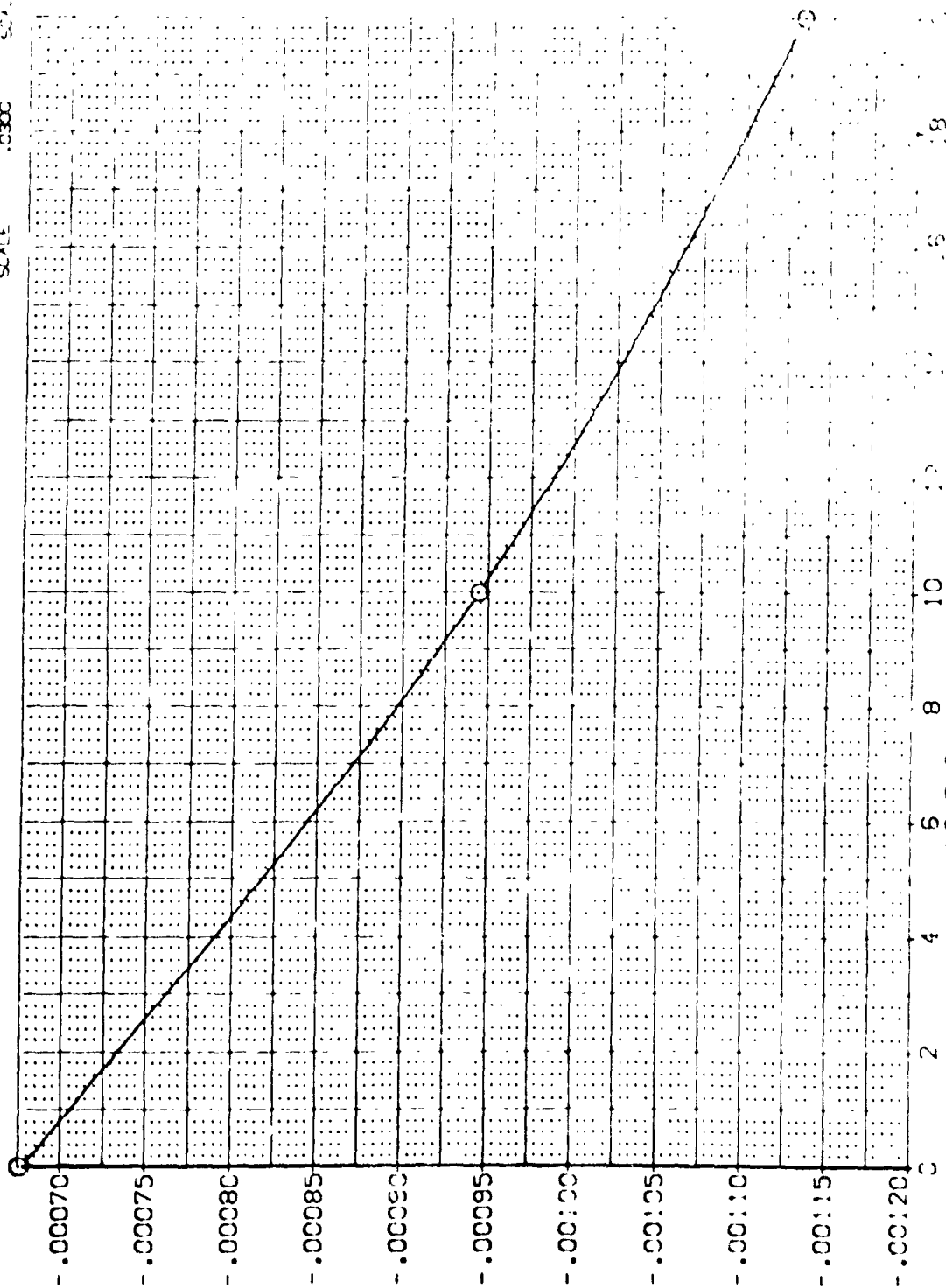


FIG. 15 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 2

ARC 97-747 0A538 B C W F W1 V NOM. RN/L

(AEK039)

SYMBOL

MACH

ELEVON

PARAMETRIC VALUES

DATA SOURCE

DATASET

ALPHA

ALPHA

ALPHA

ALPHA

ALPHA

ALPHA

ALPHA

ALPHA

1.60

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ARC 97-747 CA538 B C M F W I V NOM. RN/L (AEK039J

SYMBOL

MACH

ELEVON

PARAMETRIC VALUES

.000

DATA SOURCE

DATE/SET

ALPHA

REF

REFERENCE INFORMATION

BOFLAP
RLODER
ELEV-R

ATLORN
SPDRM
ELEV-L

.000
85.000
.000

ALPHA
.000
20.000

AEK04C
AEK041

SPRE
REF
BPRF
VAPRO
ZAPRO
SCALE

2.42.0
14.244C
28.1004
32.30.0
11.000
11.000

SCALE

SIDE FORCE COEFFICIENT DERIVATIVE WITH BETA, CYBETA, PER DEGREE

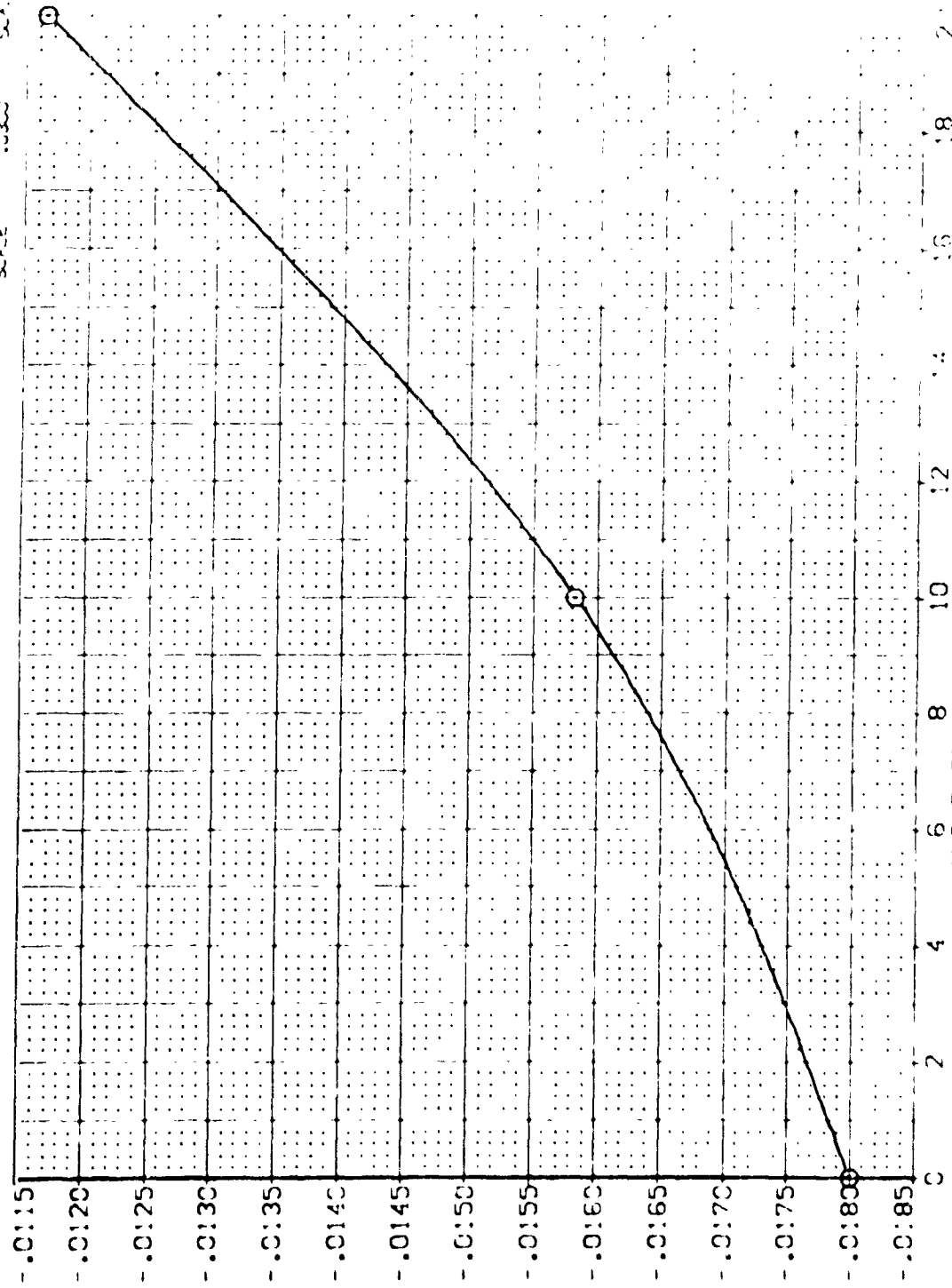


FIG. 16 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 3

SYMBOL: 0 MACH: 1.601

PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
ELEVON	.000	ATLON	.000	SPREF	2.4210
BOFLAP	-11.700	SPOBRK	65.000	LRREF	14.244C
RJODER	.000	ELEV-L	.000	BRREF	28.1004
ELEV-R	.000	AEF041	20.000	YMRP	32.3010
				YMRP	11.7500
				SCALE	.0300

YAWING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CYNBET, PER DEGREE

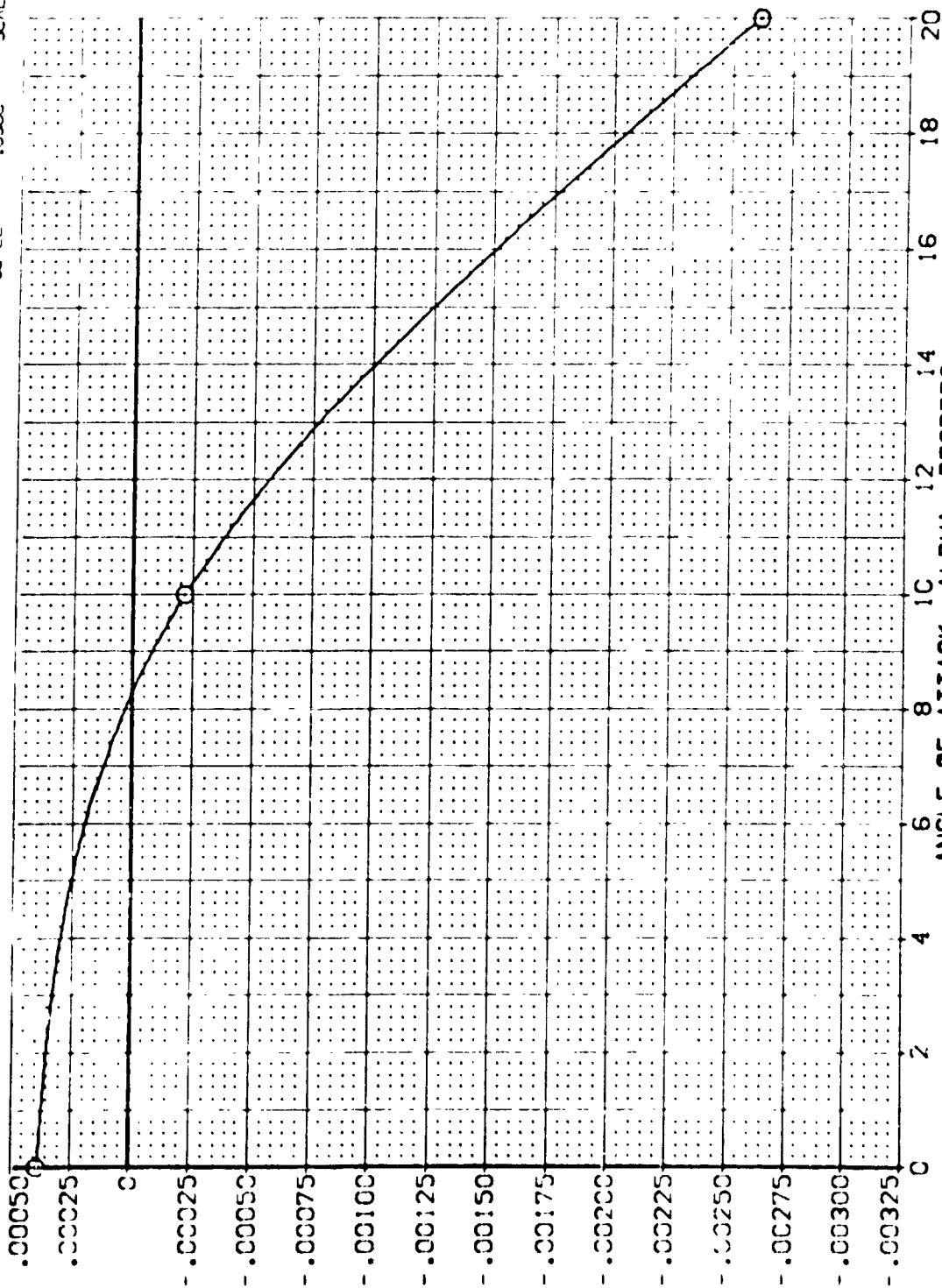


FIG. 16 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 3

SYMBOL

MACH

ELEVON

PARAMETRIC VALUES

DATA SOURCE

AEK039

AEK040

AEK041

AEK042

AEK043

AEK044

AEK045

AEK046

AEK047

YAWING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CYNBET, PER DEGREE

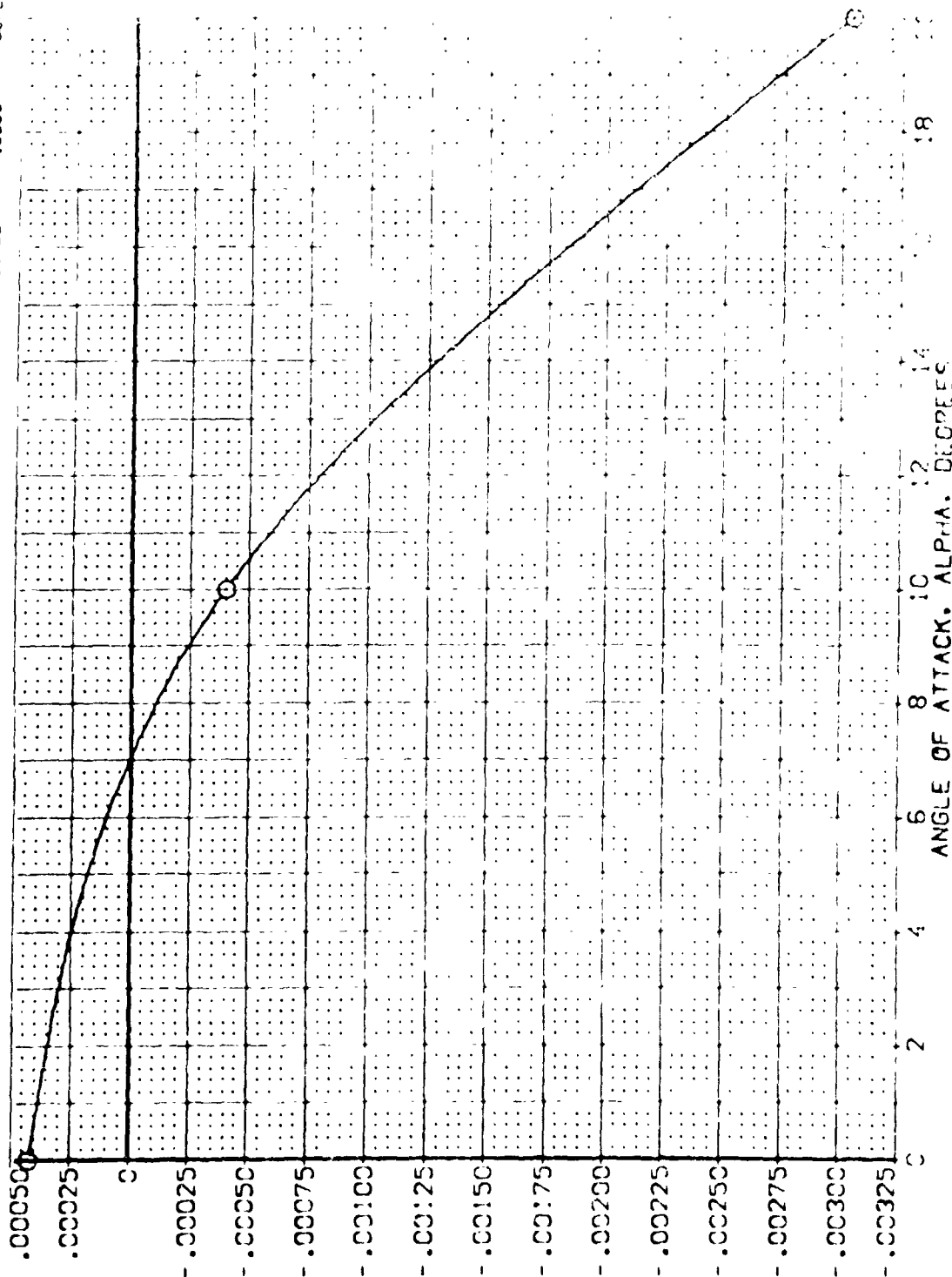


FIG. 16 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 3

SYMBOL		MACH		PARAMETRIC VALUES				DATA SOURCE		DATASET		ALPHA		REFERENCE INFORMATION	
O		1.601	ELEVON	.000	AILIRON	.000	DATASET	ALPHA	.000	AEK040	10.000	SREF	2.4210	SQ.FT.	SCALE
			BOFLAP	-11.00	SPOBRK	.000	AEK039	20.000				LREF	14.2440		
			RUDDER	.000	ELEV-L	.000	AEK041					SREF	28.1004		
			ELEV-R	.000								YMRP	32.3010		
												ZMRP	11.2500		
												SCALE	.0300		

ROLLING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CBLBET, PER DEGREE

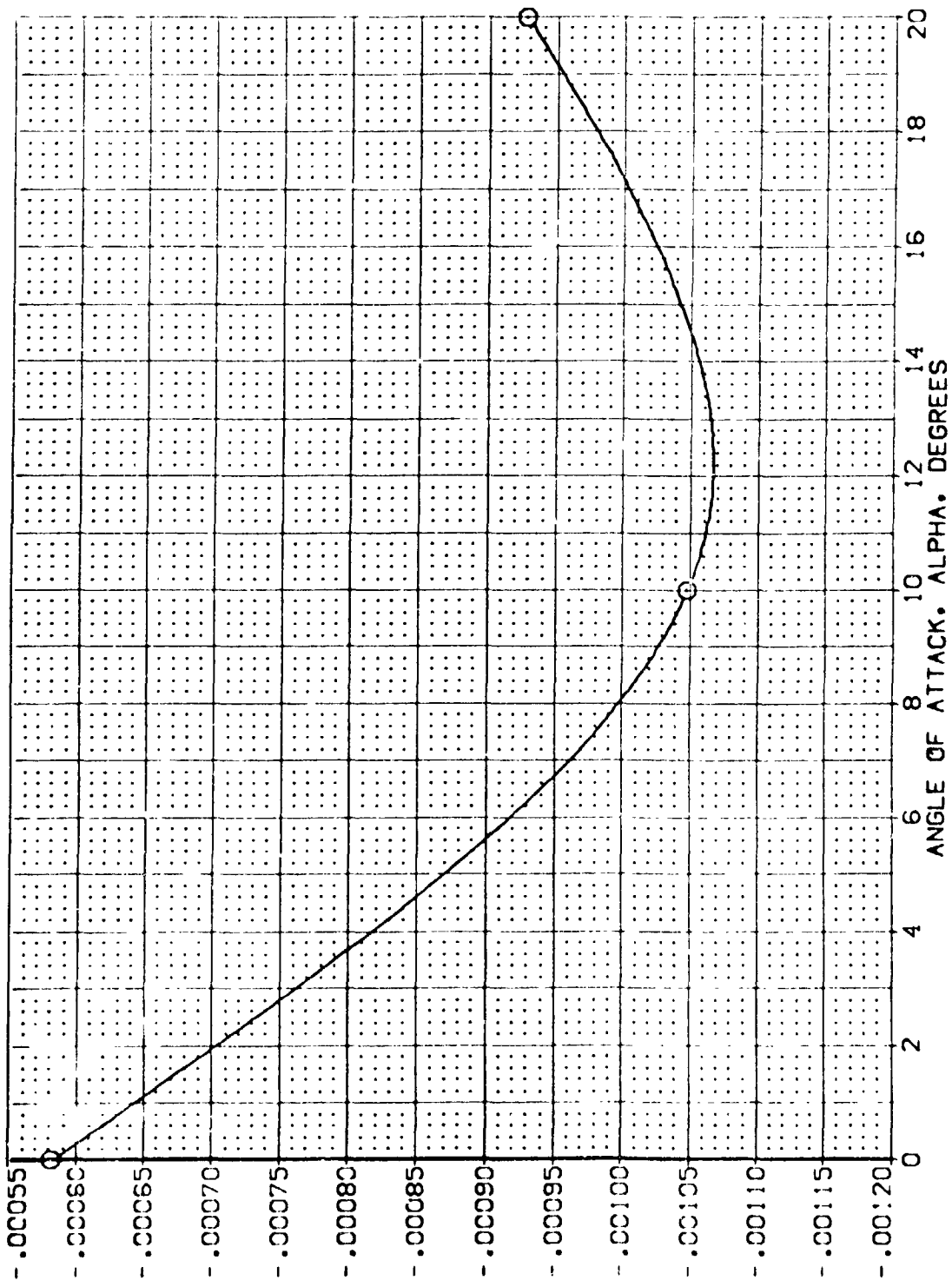


FIG. 16 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 3

SYMBOL	MAG	PARAMETRIC VALUES				DATA SOURCE		REFERENCE INFORMATION			
		ELEVON	.000	AIRRON	.000	AEK039	AEK040	AEK040	AEK040	AEK040	AEK040
0	2.002	BOFLAP	-11.700	SPOBRK	85.000	AEK039	.000	AEK040	AEK040	AEK040	
		RUDDER	.000	ELEV-L	.000	AEK041	.000	AEK040	AEK040	AEK040	
		ELEV-R	.000								

SPREF	2.4210	SCALE	11.000
LREF	14.2440		
BREF	28.1004		
XREF	32.3010		
YREF	.0000		
ZREF	11.2500		

ROLLING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CBLBET, PER DEGREE

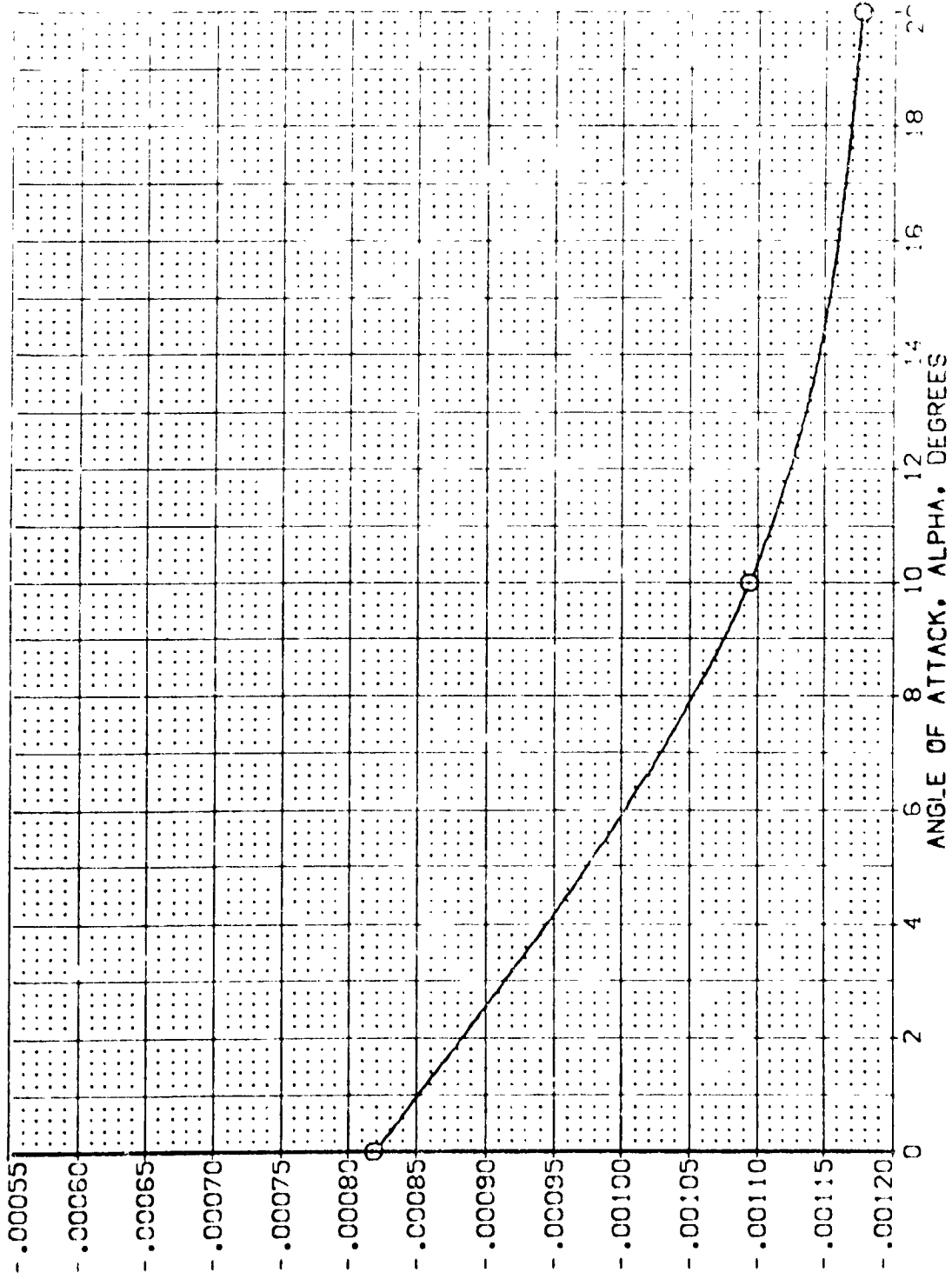


FIG. 16 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 3

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOT.	AILRON	ELEVON	BOFLAP	SPDRFK	REFERENCE INFORMATION
[AEK022]	ARC 97-747 QAS38 B C M F VI	V	20.000	-20.000	-11.700	55.000	SREF 2.4210 SQ.FT.
[AEM005]	ARC 97-747 QAS38 B C M F VI	V	5.000	-10.000	-11.700	55.000	LREF 14.2440
[AEM004]	ARC 97-747 QAS38 B C M F VI	V	5.000	.000	-11.700	55.000	BREF 28.1004
[AEP022]	ARC 97-747 QAS38 B C M F VI	V	10.000	-10.000	-11.700	55.000	YMRP 32.3010
							ZMRP .0000
							SCALE 11.2500
							SCALE .0300

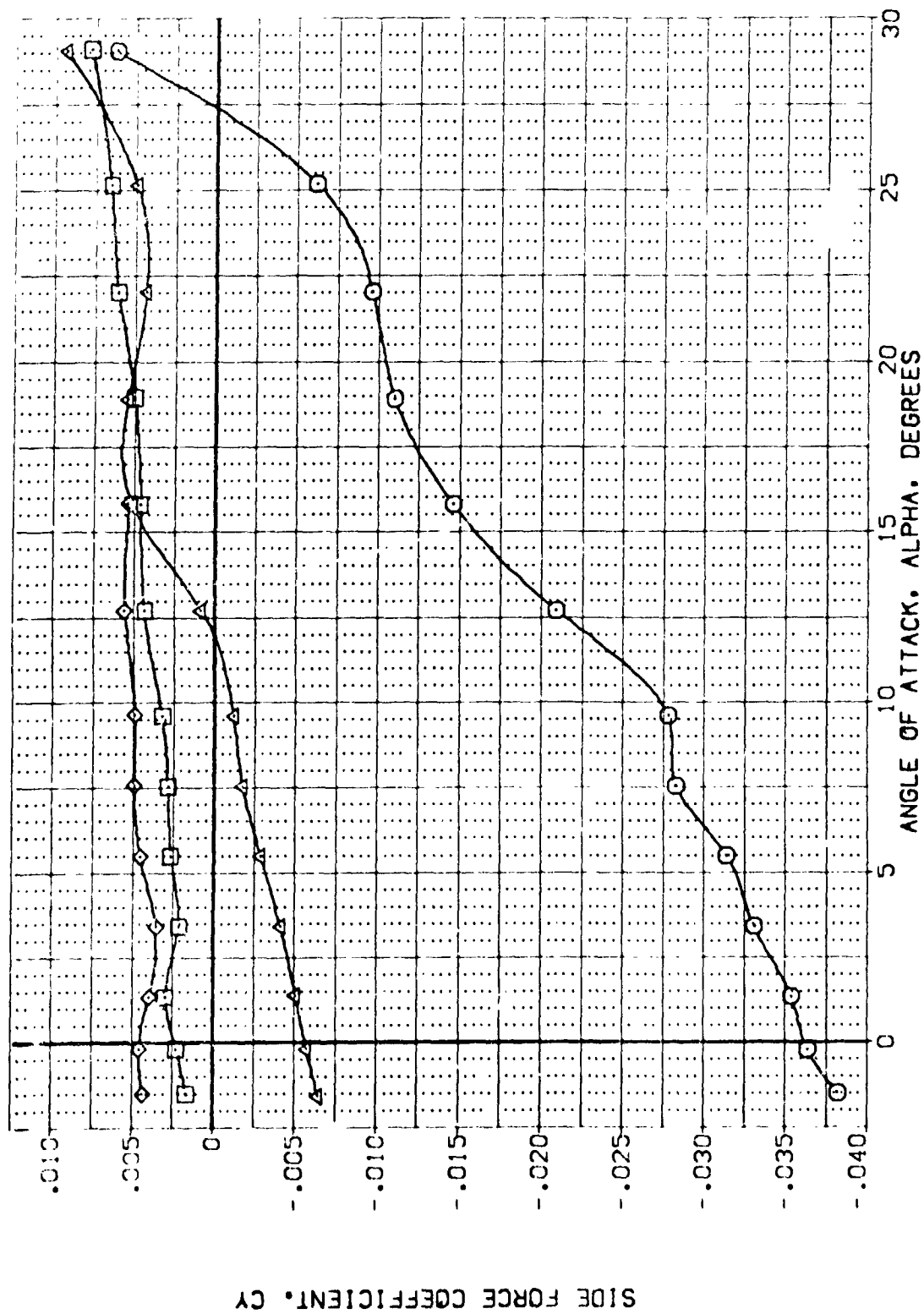


FIG. 17 AILERON EFFECTS

[A]MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	BOFLAP	SPDBRK	REFERENCE INFORMATION
[AEK022]	ARC 97-747 OAS38 B C M F VI V	20.000	-20.000	-11.700	55.000	SREF 2.4210
[AEK005]	ARC 97-747 OAS38 B C M F VI V	5.000	-10.000	-11.700	55.000	LRPF 14.2440
[AEK004]	ARC 97-747 OAS38 B C M F VI V	5.000	0.000	-11.700	55.000	BRPF 28.1004
[AEK021]	ARC 97-747 OAS38 B C M F VI V	10.000	-10.000	-11.700	55.000	XMRD 37.3610
						YMRD 0.0000
						ZMRD 11.2500
						SCALE 0.0300

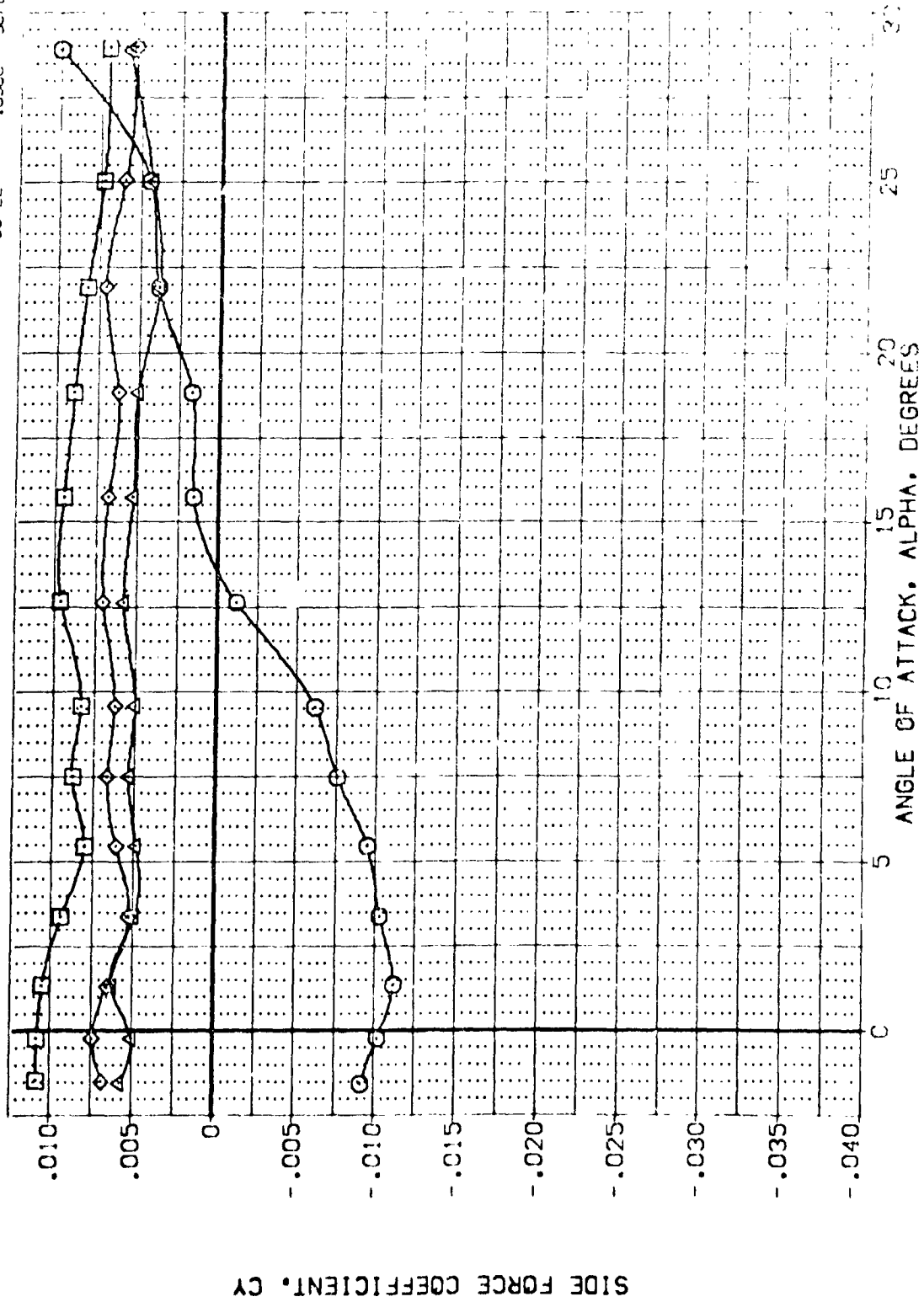


FIG. 17 AILERON EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	BDFLAP	SPODBRK	REFERENCE INFORMATION
[AEK022]	ARC 97-747 OAS38 B C M F V	20.000	-20.000	-11.700	55.000	SREF 2.4210 SQ.FT.
[AEK023]	ARC 97-747 OAS38 B C M F V	5.000	-10.000	-11.700	55.000	LREF 14.2440 IN.
[AEK024]	ARC 97-747 OAS38 B C M F V	5.000	-10.000	-11.700	55.000	BREF 28.1004 IN.
[AEK025]	ARC 97-747 OAS38 B C M F V	10.000	-10.000	-11.700	55.000	XMRP 32.3010 IN.
						YMRP .0000 IN.
						ZMRP 11.2500 IN.
						SCALE .0300 IN.

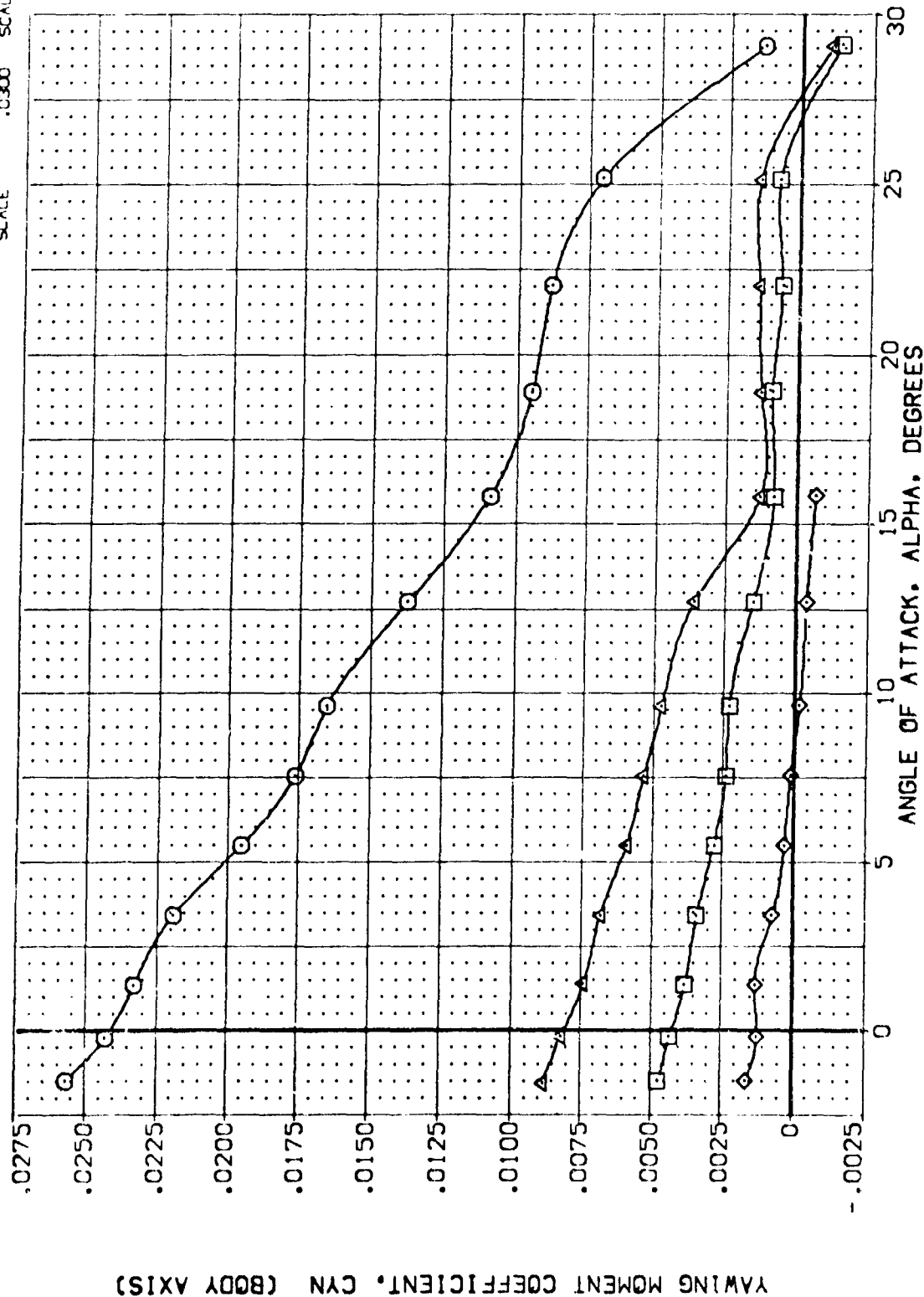


FIG. 17 AILERON EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	BOFLAP	SPDBRK	REFERENCE INFORMATION
[AEK022]	ARC 97-747 GAS38 B C M F VI V	20.000	-20.000	-11.700	55.000	SREF 2.4210
[AEK023]	ARC 97-747 GAS38 B C M F VI V	5.000	-10.000	-11.700	55.000	LREF 14.2440
[AEK024]	ARC 97-747 GAS38 B C M F VI V	5.000	0.000	-11.700	55.000	BREF 28.1000
[AEK025]	ARC 97-747 GAS38 B C M F VI V	10.000	-10.000	-11.700	55.000	YMRD 32.3010
						ZMRD 11.2500
						SCALE 0.0300

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

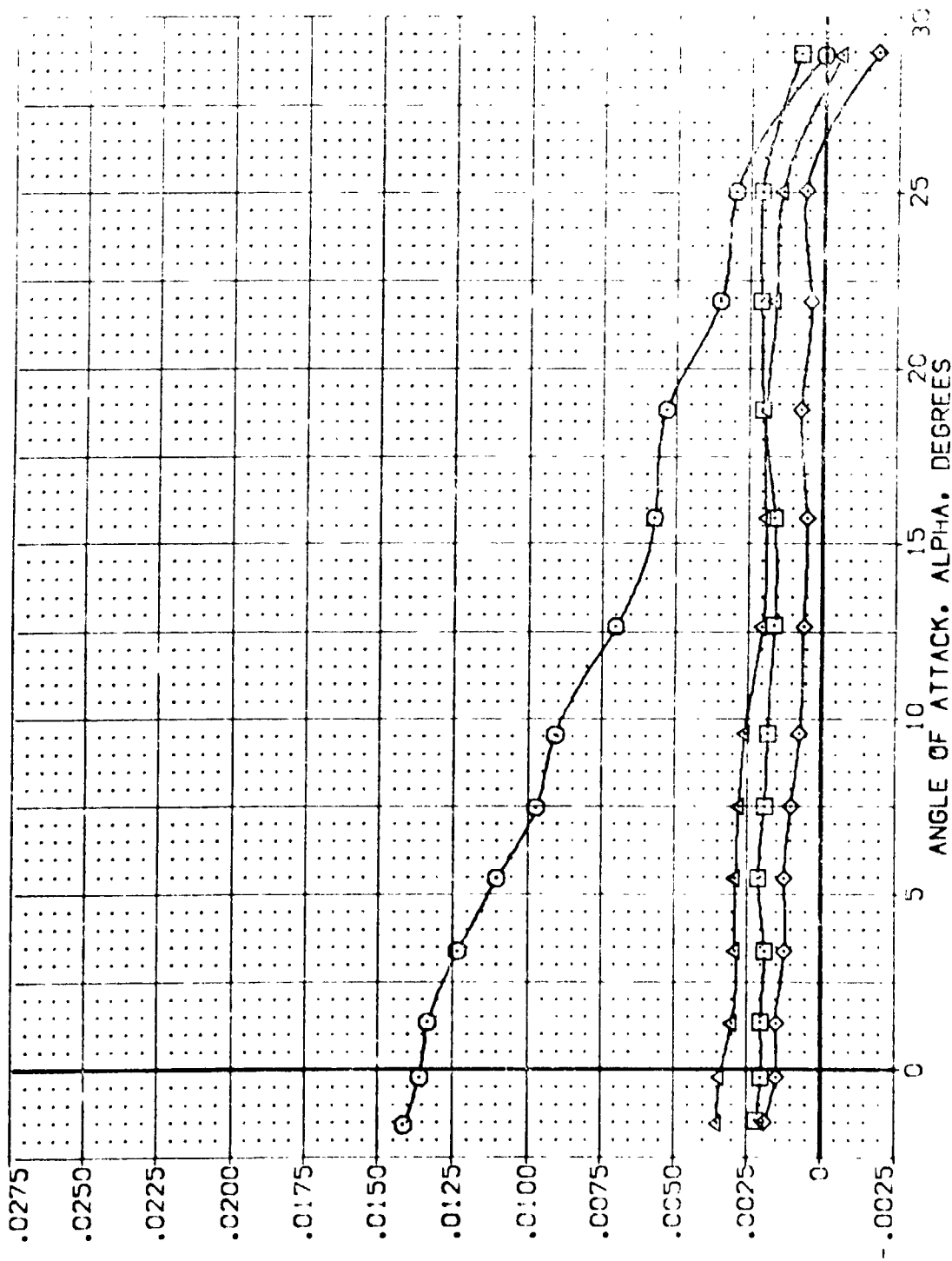


FIG. 17 AILERON EFFECTS

(BOMAC = 2.00)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
{ AEK072 }	ARC 97-747 OAS38 B C M F V I V	20.000	-20.000	-11.700	55.000	SREF 2.4210
{ AEK005 }	ARC 97-747 OAS38 B C M F V I V	5.000	-10.000	-11.700	55.000	LREF 14.2440
{ AEK004 }	ARC 97-747 OAS38 B C M F V I V	5.000	-10.000	-11.700	55.000	BREF 28.1004
{ AEK021 }	ARC 97-747 OAS38 B C M F V I V	10.000	-10.000	-11.700	55.000	XMRP 32.3010
						YMRP .0000
						ZMRP 11.2500
						SCALE .0300

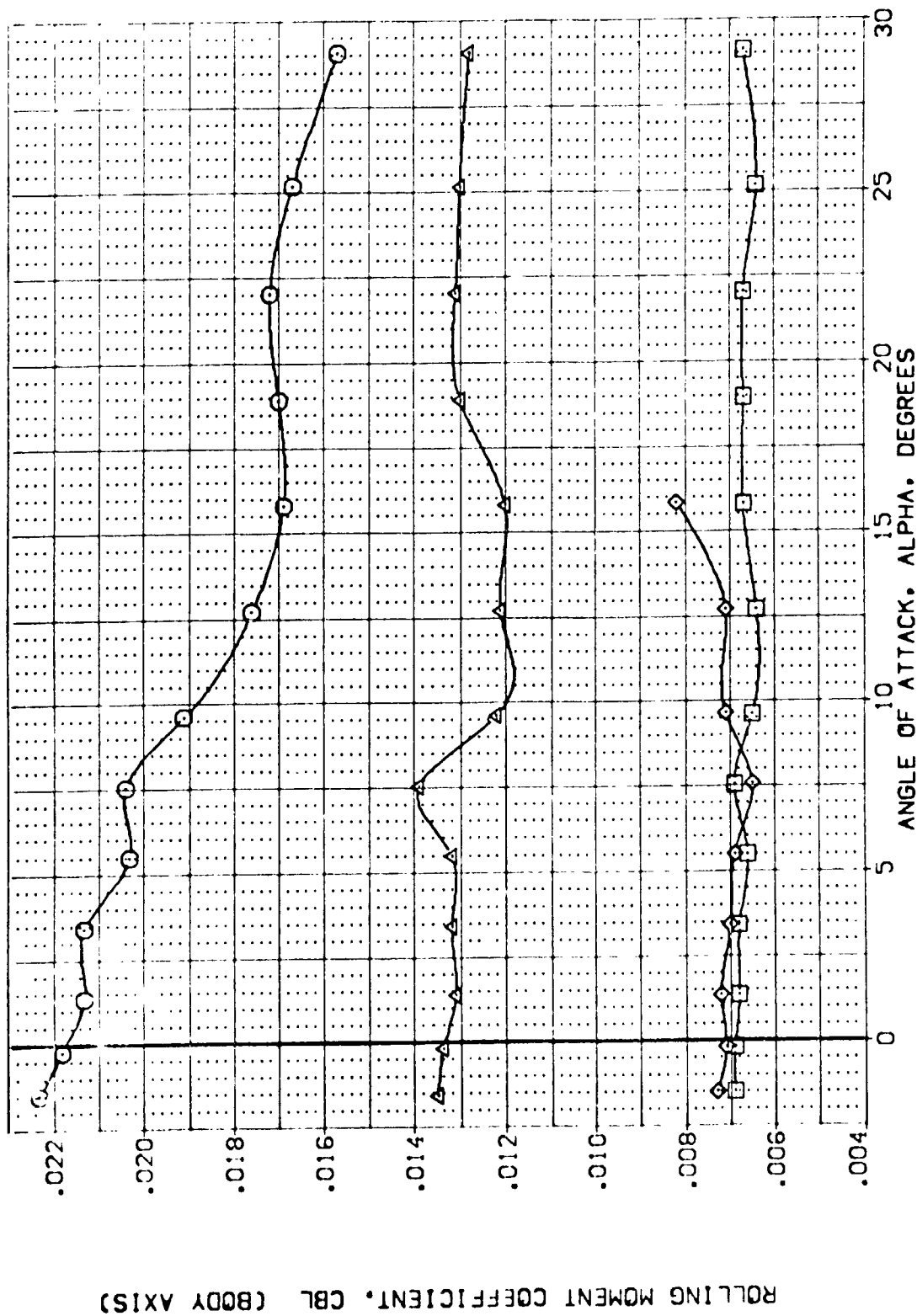


FIG. 17 AILERON EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	90° LAP	SPOON	REFERENCE	INSTRUMENT
ARC 97-747	QAS38 B C M F V	20.000	-20.000	-11.700	55.000	SPREF	2.4213
ARC 97-747	QAS38 B C M F V	5.000	-10.000	-11.700	55.000	SPREF	14.2440
ARC 97-747	QAS38 B C M F V	10.000	-10.000	-11.700	55.000	SPREF	32.3012
ARC 97-747	QAS38 B C M F V	20.000	-10.000	-11.700	55.000	SPREF	11.2550

SCALE 10.000

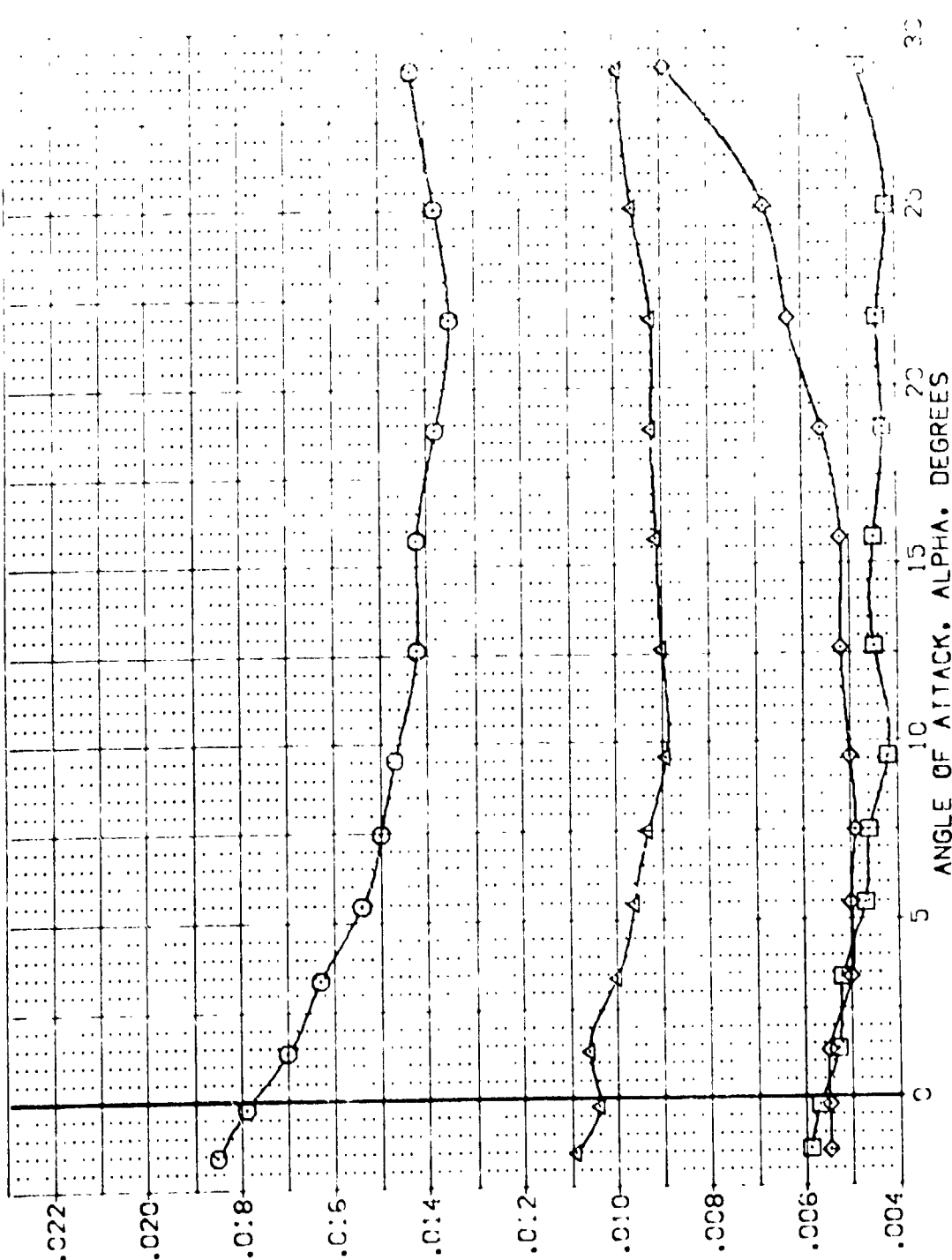


FIG. 17 AILERON EFFECTS

(B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DA	ELEVON	BOFLAP	SPDBRK	REFERENCE INFORMATION
[VEP022]	ARC 97-747 DA538 B C M F V	20.000	-20.000	-11.700	55.000	SPEC 2.4210
[VEP005]	ARC 97-747 DA538 B C M F V	5.000	-10.000	-11.700	55.000	REF 14.2445
[VEP004]	ARC 97-747 DA538 B C M F V	5.000	-10.000	-11.700	55.000	SPDB 28.1004
[VEP021]	ARC 97-747 DA538 B C M F V	10.000	-10.000	-11.700	55.000	ANDB 32.3010
					YMRD 11.2500	SCALE
						0.000

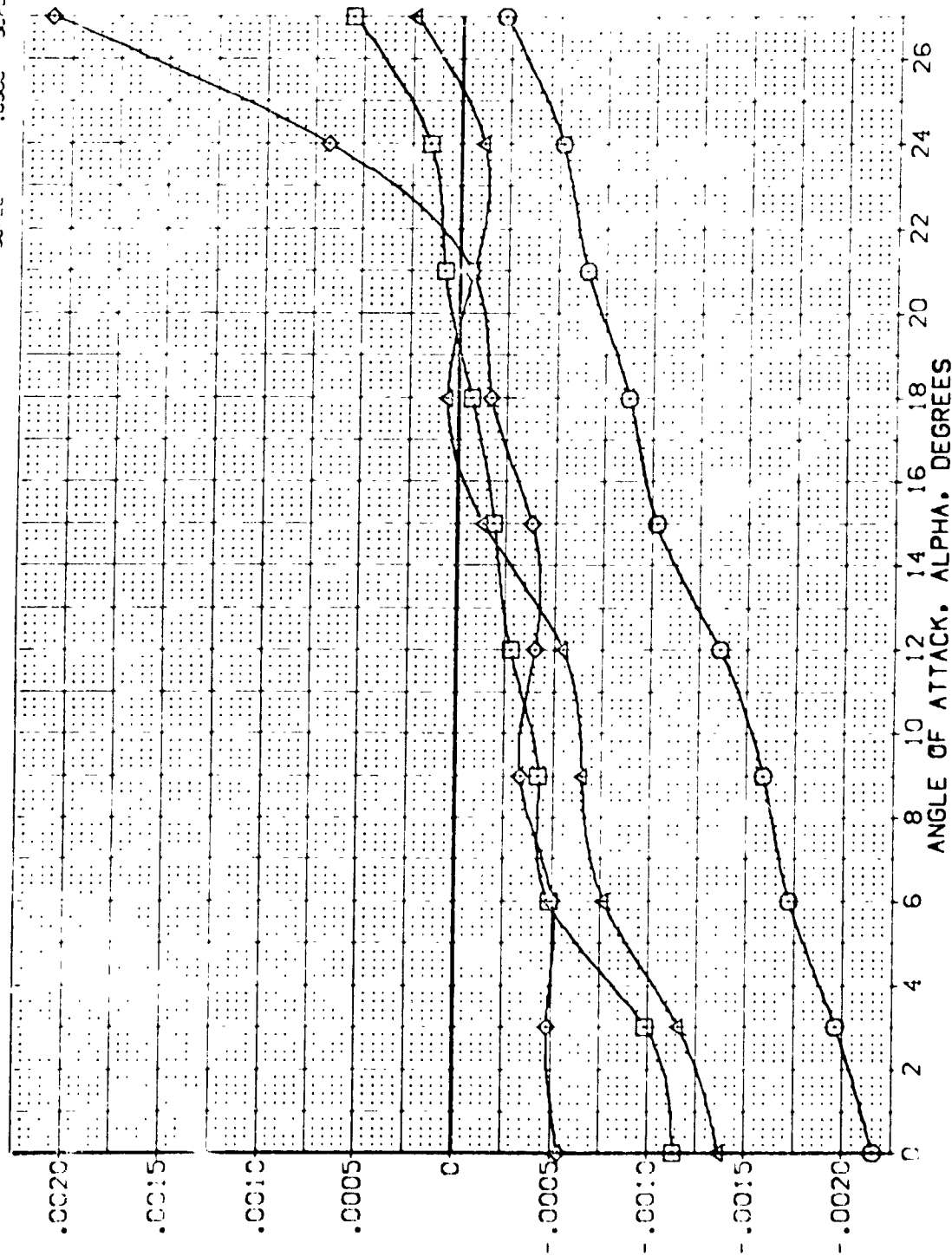


FIG. 18 AILERON EFFECTIVENESS DERIVATIVES

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DA	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
[VE0022]	ARC 97-747 DAS38 B C M F V	20.000	-20.000	-11.700	55.000	SREF 2.4210
[VE0005]	ARC 97-747 DAS38 B C M F V	5.000	-10.000	-11.700	55.000	LREF 14.2440
[VE0004]	ARC 97-747 DAS38 B C M F V	5.000	-10.000	-11.700	55.000	SREF 28.1304
[VE0021]	ARC 97-747 DAS38 B C M F V	10.000	-10.000	-11.700	55.000	SREF 32.3010

YMAX	10.000
ZMAX	11.2000
SCALE	1.0000

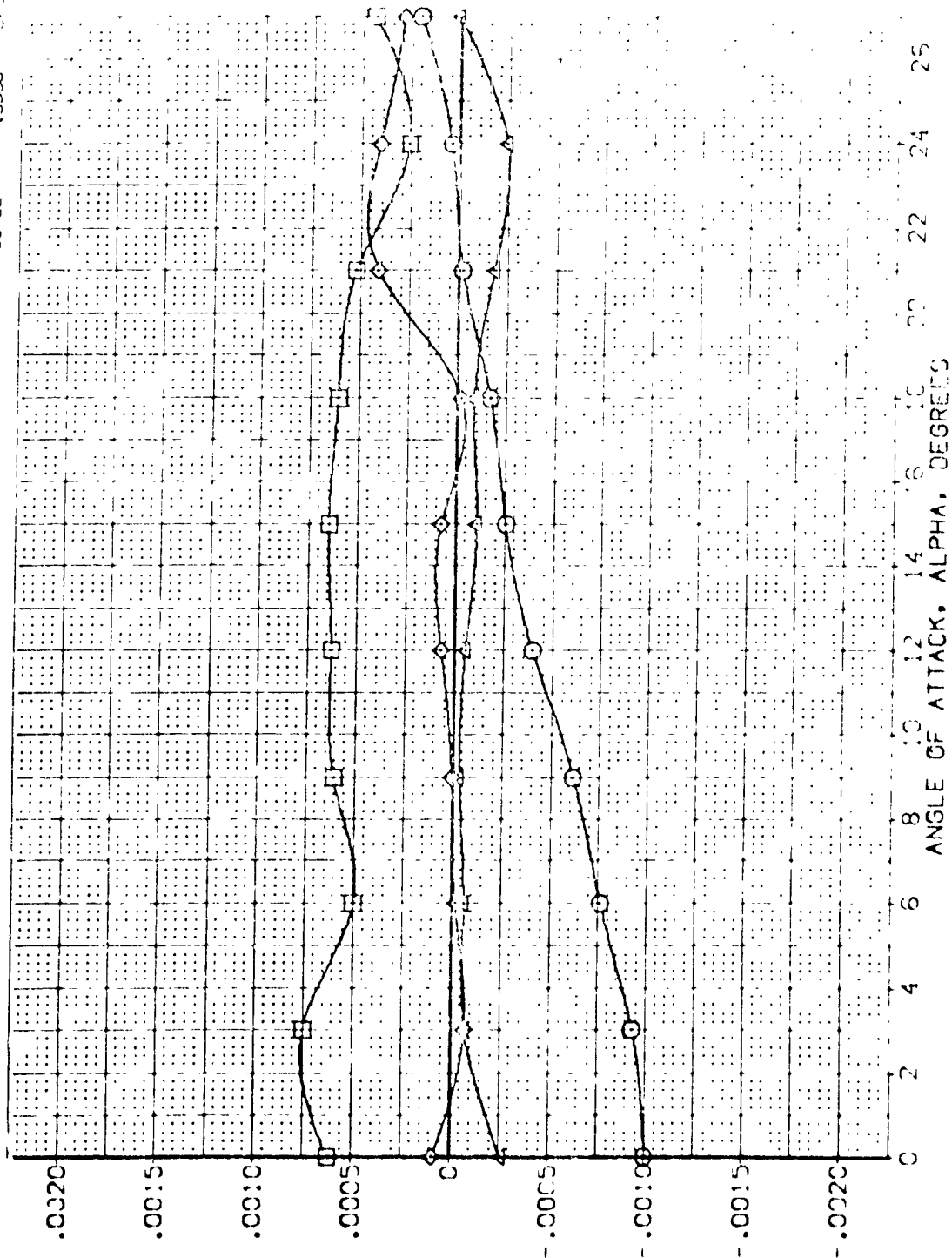


FIG. 18 AILERON EFFECTIVENESS DERIVATIVES

(B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DA	ELEVON	BOLAP	SPOBRK	REFERENCE INFORMATION
[VE0022]	ARC 97-747 0A538 B C M F V	20.000	-20.000	-11.700	55.000	SREF 2.4210 SQ.FT.
[VE0005]	ARC 97-747 0A538 B C M F V	5.000	-10.000	-11.700	55.000	LREF 14.2410
[VE0004]	ARC 97-747 0A538 B C M F V	10.000	-10.000	-11.700	55.000	BREF 28.1004
[VE0021]	ARC 97-747 0A538 B C M F V		-10.000	-11.700	55.000	YMRP .0000
						ZMRP .0000
						SCALE 11.7500
						SCALE .0000

YAWING MOMENT DUE TOAILRON, DCYNDA, PER DEGREE, (BODY AXIS)

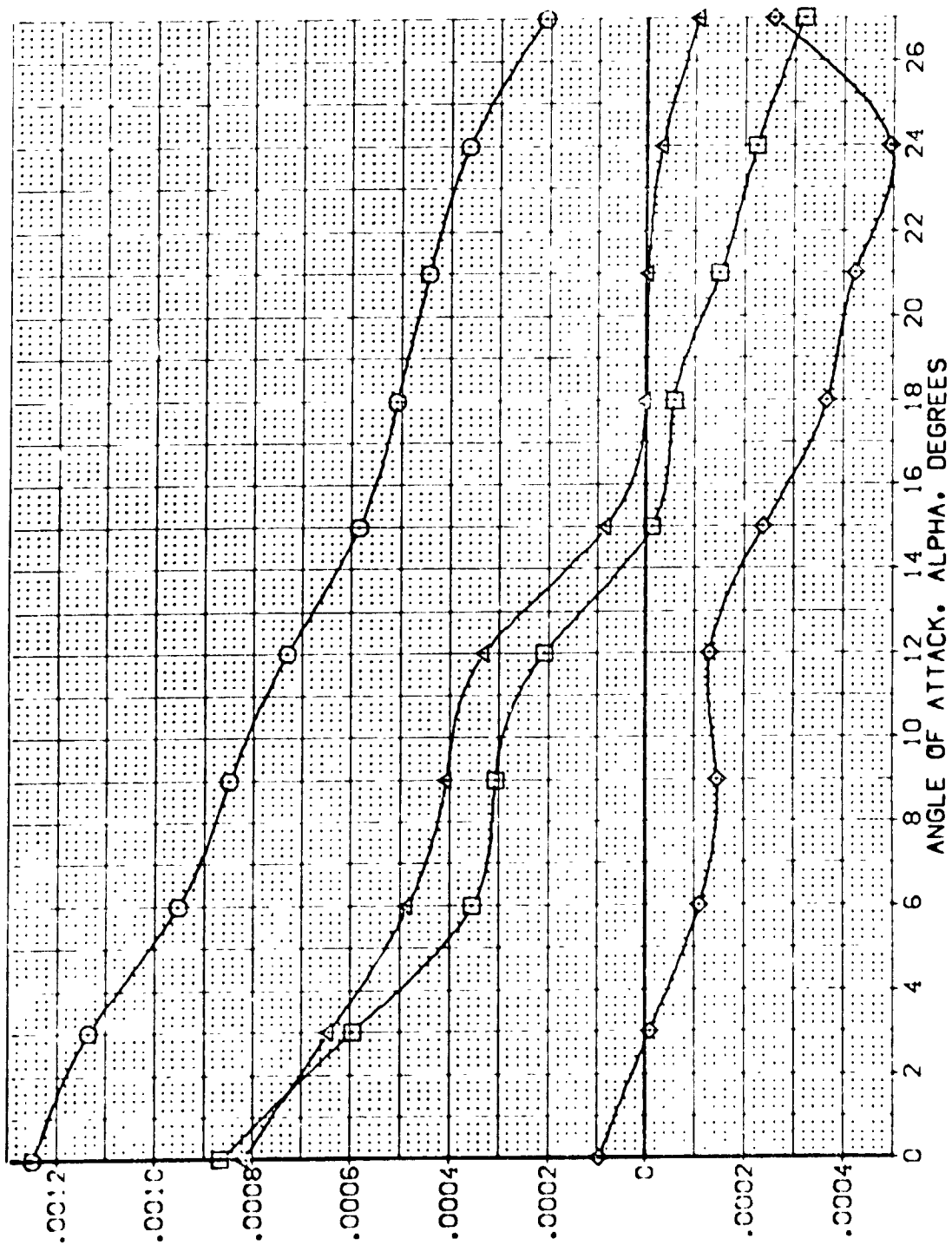


FIG. 18AILERON EFFECTIVENESS DERIVATIVES

(A)MACH = 1.60

DATA SET SYMBOL: [VER022] [VER005] [VER004] [VER021]

CONFIGURATION DESCRIPTION: ARC 97-747 CAS38 B C M F VI V NOT: RV/L
 ARC 97-747 CAS38 B C M F VI V NOT: RV/L
 ARC 97-747 CAS38 B C M F VI V NOT: RV/L
 ARC 97-747 CAS38 B C M F VI V NOT: RV/L

DA: 20.000 5.000 5.000 10.000

ELEVON: -20.000 -10.000 -10.000 -10.000

BOFLAP: -11.700 -11.700 -11.700 -11.700

SPDBRK: 55.000 55.000 55.000 55.000

REFERENCE INFORMATION: SREF: 2.4710
 LREF: 14.2440
 BREF: 28.1004
 XMRP: 32.3510
 YMRP: 3.0000
 ZMRP: 11.2500
 SCALE: 10300

YAWING MOMENT DUE TO ALERON, DCYNDA, PER DEGREE, (BODY AXIS)

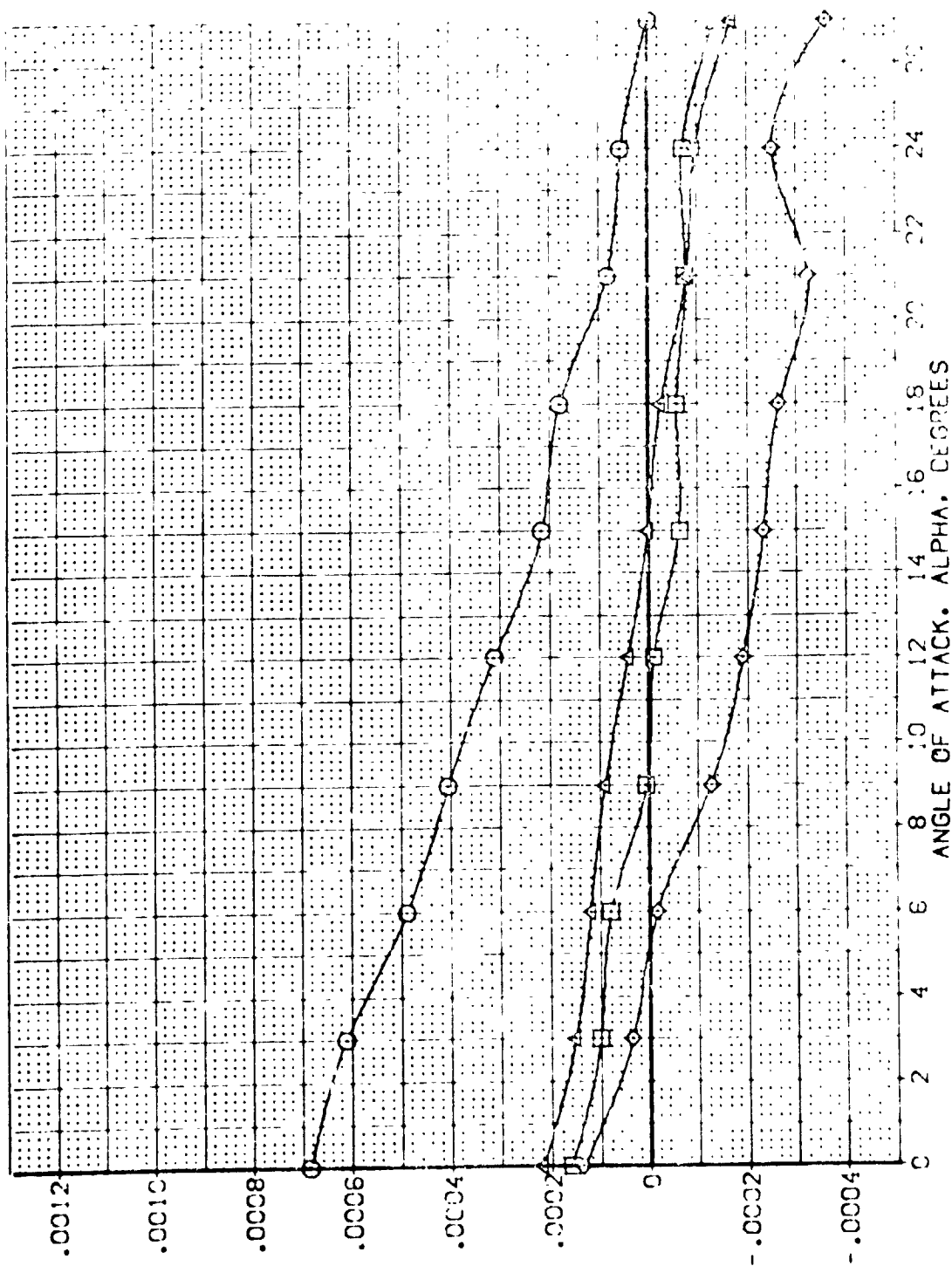


FIG. 18 AILERON EFFECTIVENESS DERIVATIVES

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DA	ELEVON	BOFLAP	SPDBRK	REFERENCE INFORMATION
{VE002}	ARC 97-747 0A538 B C M F V	20.000	-20.000	-11.700	55.000	SREF 2.4210 SQ.FT.
{VE003}	ARC 97-747 0A538 B C M F V	5.000	-10.000	-11.700	55.000	LREF 14.2440
{VE004}	ARC 97-747 0A538 B C M F V	10.000	-10.000	-11.700	55.000	BREF 28.1004
{VE007}	ARC 97-747 0A538 B C M F V	10.000	-10.000	-11.700	55.000	XREF 32.3010
						YREF 0.0000
						ZREF 11.2500
						SCALE 0.000

ROLLING MOMENT DUE TO AILERON, DCBLDA, PER DEGREE, (BODY AXIS)

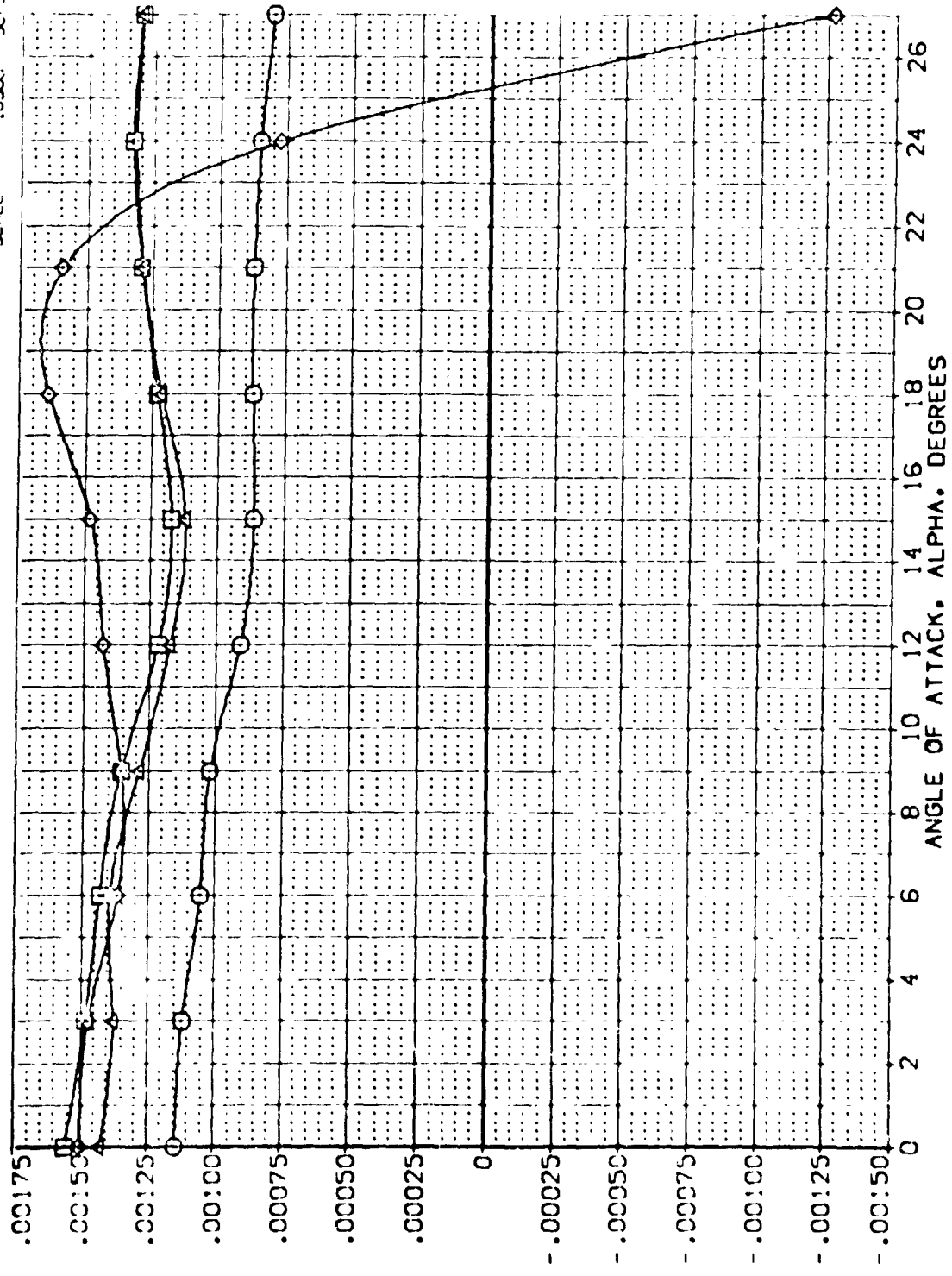


FIG. 18 AILERON EFFECTIVENESS DERIVATIVES

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DA	ELEVON	BOFLAP	SPOORX	REFERENCE INFORMATION
[VER022]	ARC 97-747 OAS38 B C M F V	20.000	-20.000	-11.700	55.000	SREF 2.4210
[VER003]	ARC 97-747 OAS38 B C M F V	5.000	-10.000	-11.700	55.000	LREF 14.7440
[VER004]	ARC 97-747 OAS38 B C M F V	5.000	-10.000	-11.700	55.000	SREF 28.1004
[VER021]	ARC 97-747 OAS38 B C M F V	10.000	-10.000	-11.700	55.000	MREF 32.5000
						WREF 13.000
						ZREF 11.7500
						SCALE 10.000

ROLLING MOMENT DUE TO AILERON, DCBLDA, PER DEGREE, (BODY AXIS)

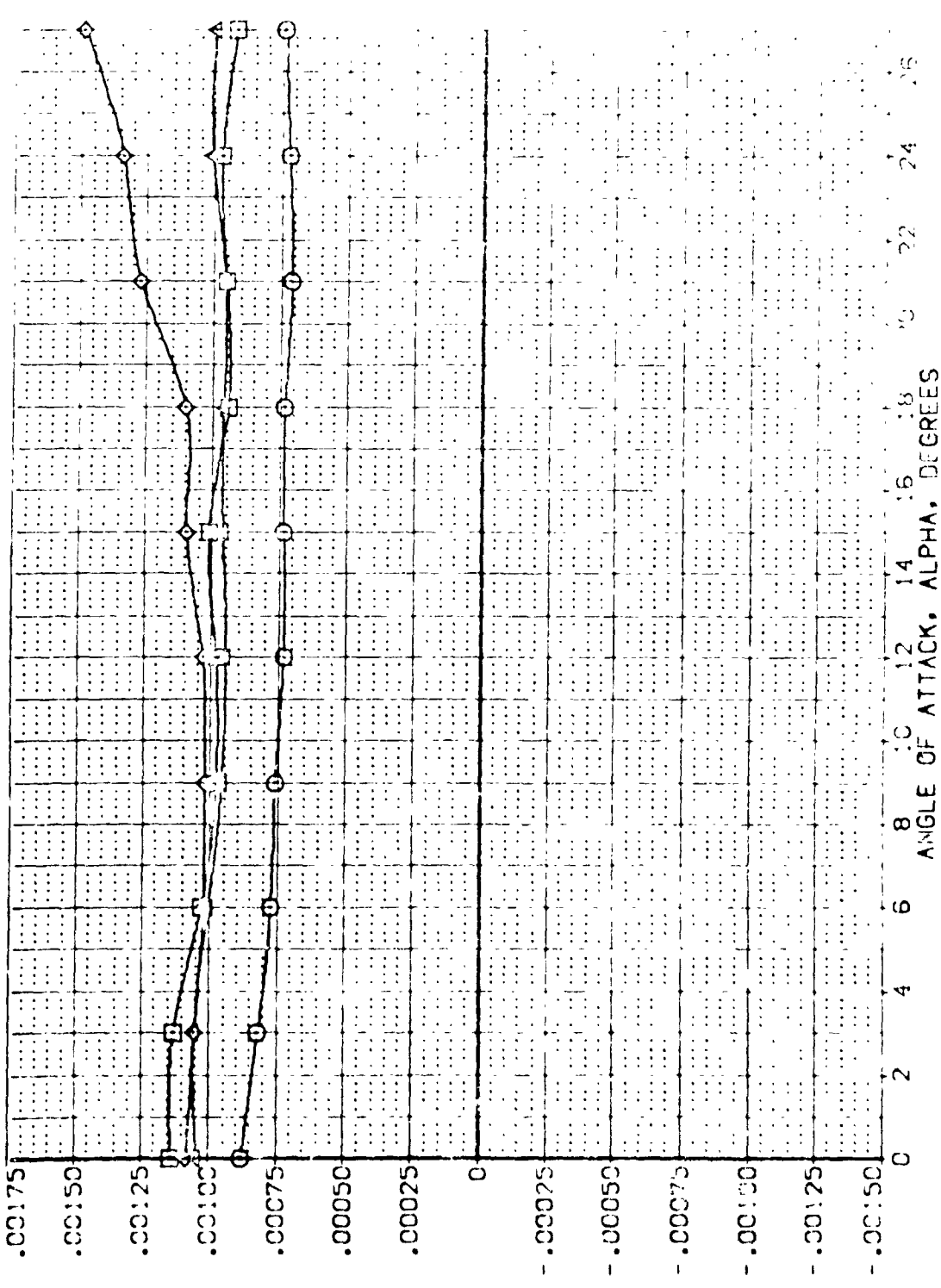


FIG. 18 AILERON EFFECTIVENESS DERIVATIVES

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DA	ELEVON	BOFLAP	SPDBRK	REFERENCE INFORMATION
(VEK022)	ARC 97-747 OAS38 B C M F V1	20.000	-20.000	-11.700	55.000	SREF 2.4210
(VEK003)	ARC 97-747 OAS38 B C M F V1	5.000	-10.000	-11.700	55.000	REF 14.2440
(VEK004)	ARC 97-747 OAS38 B C M F V1	5.000	.000	-11.700	55.000	BREF 28.1004
(VEK021)	ARC 97-747 OAS38 B C M F V1	10.000	-10.000	-11.700	55.000	XMRP 32.3010
						YMRP .0000
						ZMRP .0000
						SCALE 11.2500
						SCALE .0300

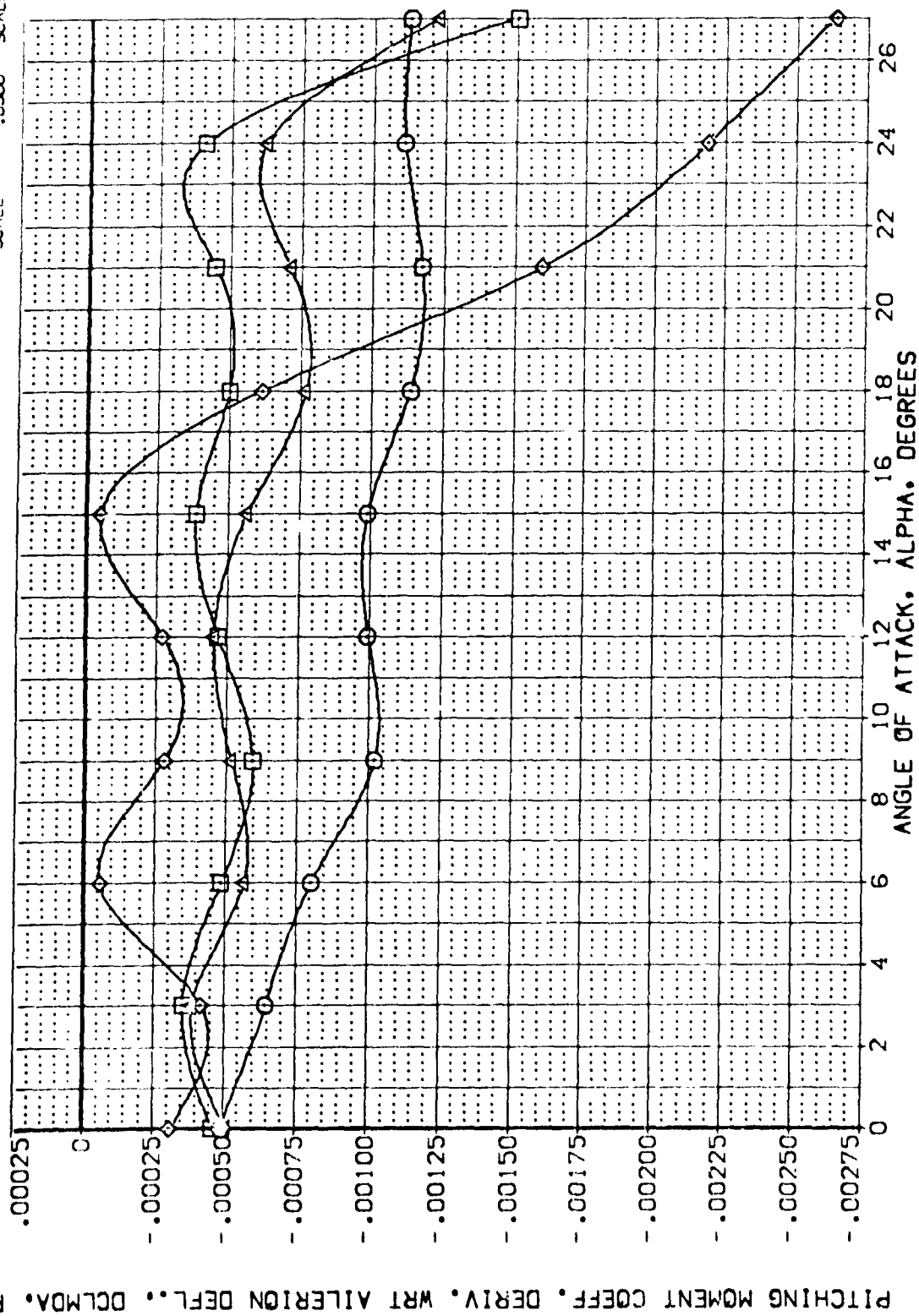


FIG. 18 AILERON EFFECTIVENESS DERIVATIVES

(A)MACH = 1.60

DATA SET SYMBOL. CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DA	ELEVON	BOLAP	SPOBRK	REFERENCE INFORMATION
ARC 97-747	DA538 B C M F V	20.000	-20.000	-11.700	55.000	SREF 2.4210 SCALE
ARC 97-747	DA538 B C M F V	5.000	-10.000	-11.700	55.000	LREF 14.2440
ARC 97-747	DA538 B C M F V	5.000	-10.000	-11.700	55.000	BREF 28.1100
ARC 97-747	DA538 B C M F V	10.000	-10.000	-11.700	55.000	XMRP 37.3000
						YMRP .0000
						ZMRP .0000
						SCALE 11.0000

PITCHING MOMENT COEFF. DERIV. WRT AILERON DEF., DCLMDA, PER DEG

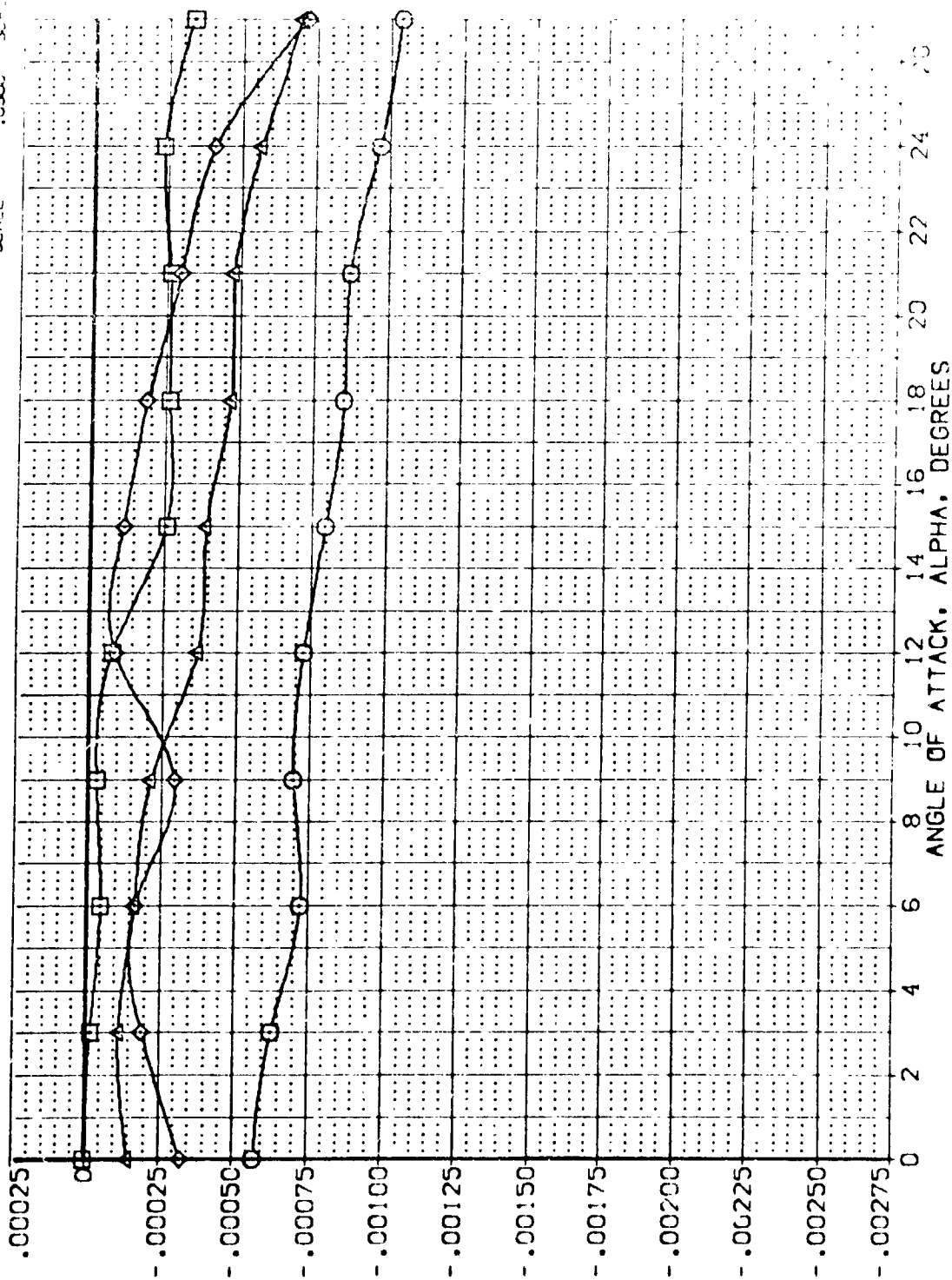


FIG. 18 AILERON EFFECTIVENESS DERIVATIVES

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
[AEMC35]	ARC 97-747 CAS38 B C M F V I V NOM. RV/L	.000	-10.000	-11.700	25.000	SREF 2.4210 SQ. FT.
[AEMC36]	ARC 97-747 CAS38 B C M F V I V NOM. RV/L	10.000	-10.000	-11.700	25.000	LRP 14.2440
[AEMC37]	ARC 97-747 CAS38 B C M F V I V NOM. RV/L	20.000	-10.000	-11.700	25.000	BRP 28.1004
						XMRP 32.3010
						YMRP .0000
						ZMRP 11.2500
						SCALE .0300

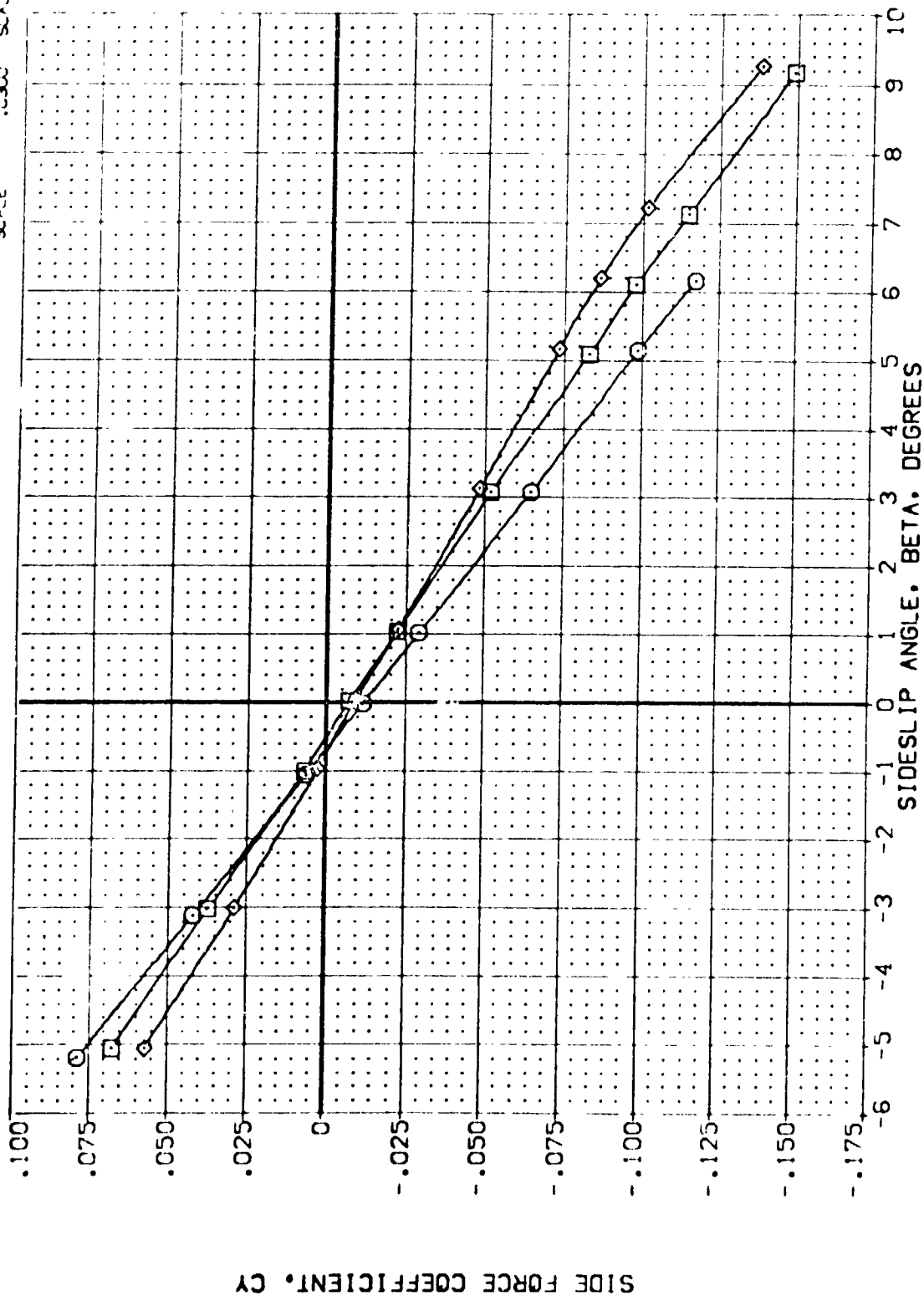


FIG. 19 RUDDER EFFECTS, SPEEDBRAKE 25 DEGREES

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BDLAP	SPOBRK	REFERENCE INFORMATION
{AEK035}	ARC 97-747 0A538 B C M F V1 V	.000	-10.000	-11.700	25.000	SREF 2.4210
{AEK036}	ARC 97-747 0A538 B C M F V1 V	10.000	-10.000	-11.700	25.000	LREF 14.2440
{AEK037}	ARC 97-747 0A538 B C M F V1 V	20.000	-10.000	-11.700	25.000	BREF 28.1004
						XMRP 32.3010
						YMRP .0000
						ZMRP .0000
						SCALE 11.2500
						SD.FT. .0300

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

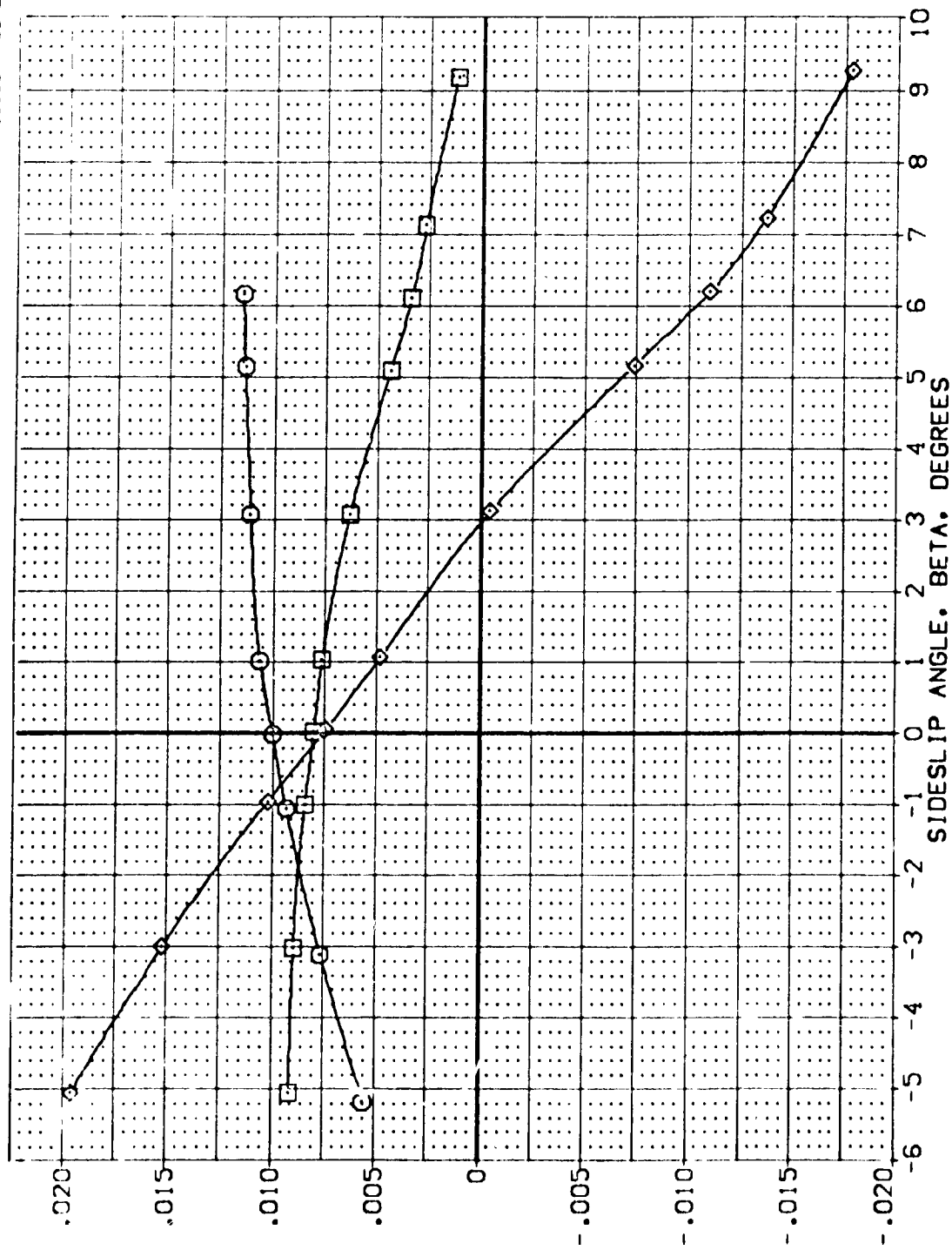


FIG. 19 RUDDER EFFECTS, SPEEDBRAKE 25 DEGREES

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

[AEK026]	ARC 97-747 QAS38 B C M F V	SREF	2.4210	50.0°
[AEK026]	ARC 97-747 QAS38 B C M F V	LREF	14.2440	2.000
[AEK037]	ARC 97-747 QAS38 B C M F V	BREF	28.1004	25.000
		YMRP	32.3010	25.000
		ZMRP	11.2500	25.000
		SCALE	.0300	

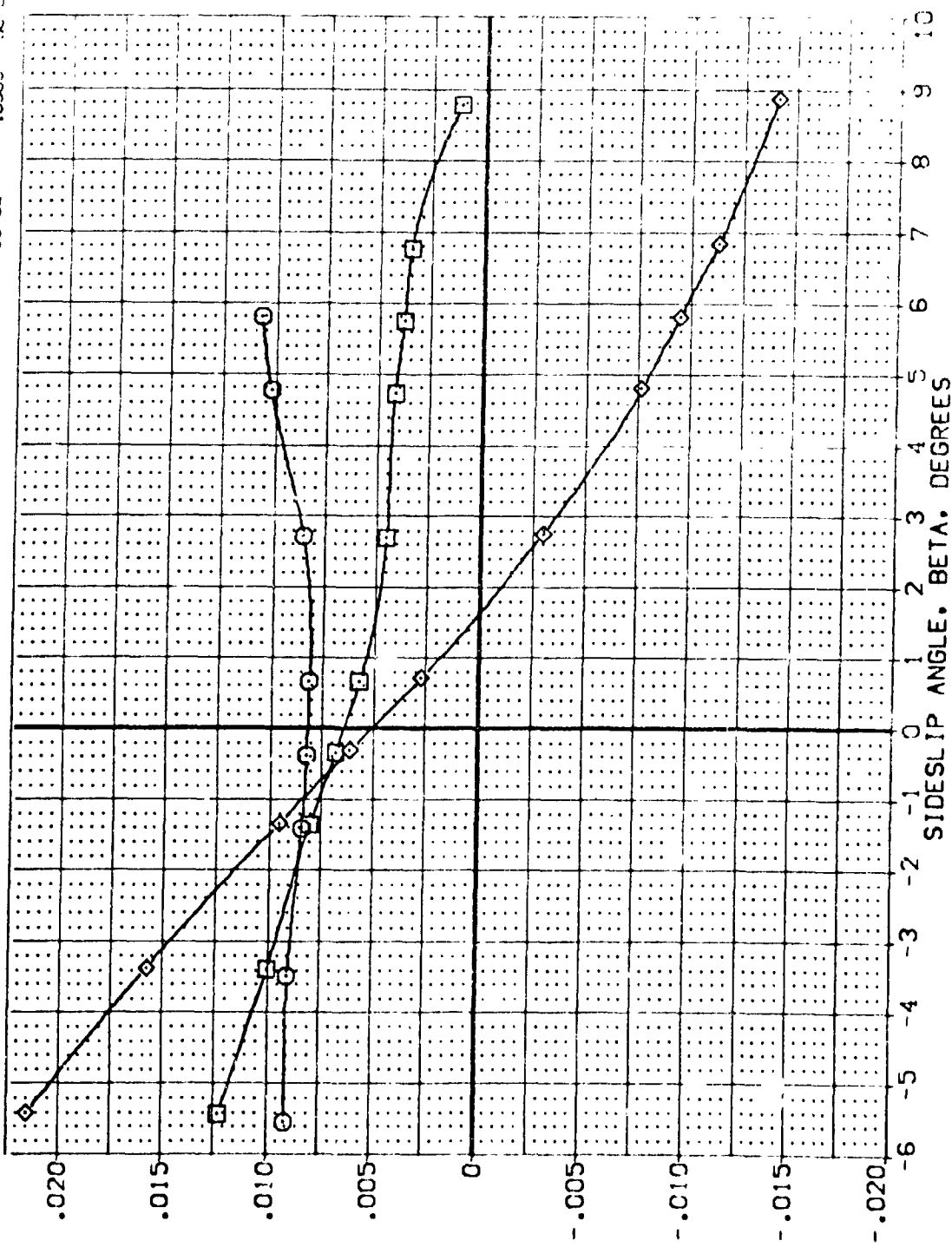


FIG. 19 RUDDER EFFECTS, SPEEDBRAKE 25 DEGREES

(B)MACH = 2.00

DATA SET SYMBOL COM POSITION DESCRIPTION
 () () () () () () () ()
 () () () () () () () ()
 () () () () () () () ()
 () () () () () () () ()

ALPHA RUDDER BOFLAP SPEEDRPM
 .000 -10.000 -11.700 25.000
 10.000 -10.000 -11.700 25.000
 20.000 -10.000 -11.700 25.000

REFERENCE INFORMATION
 SREF 2.4210 50.000
 LREF 14.2440
 YREF 78.1000
 XREF 32.3010
 YREF 11.2500
 ZREF 0.0000
 SCALE .0300

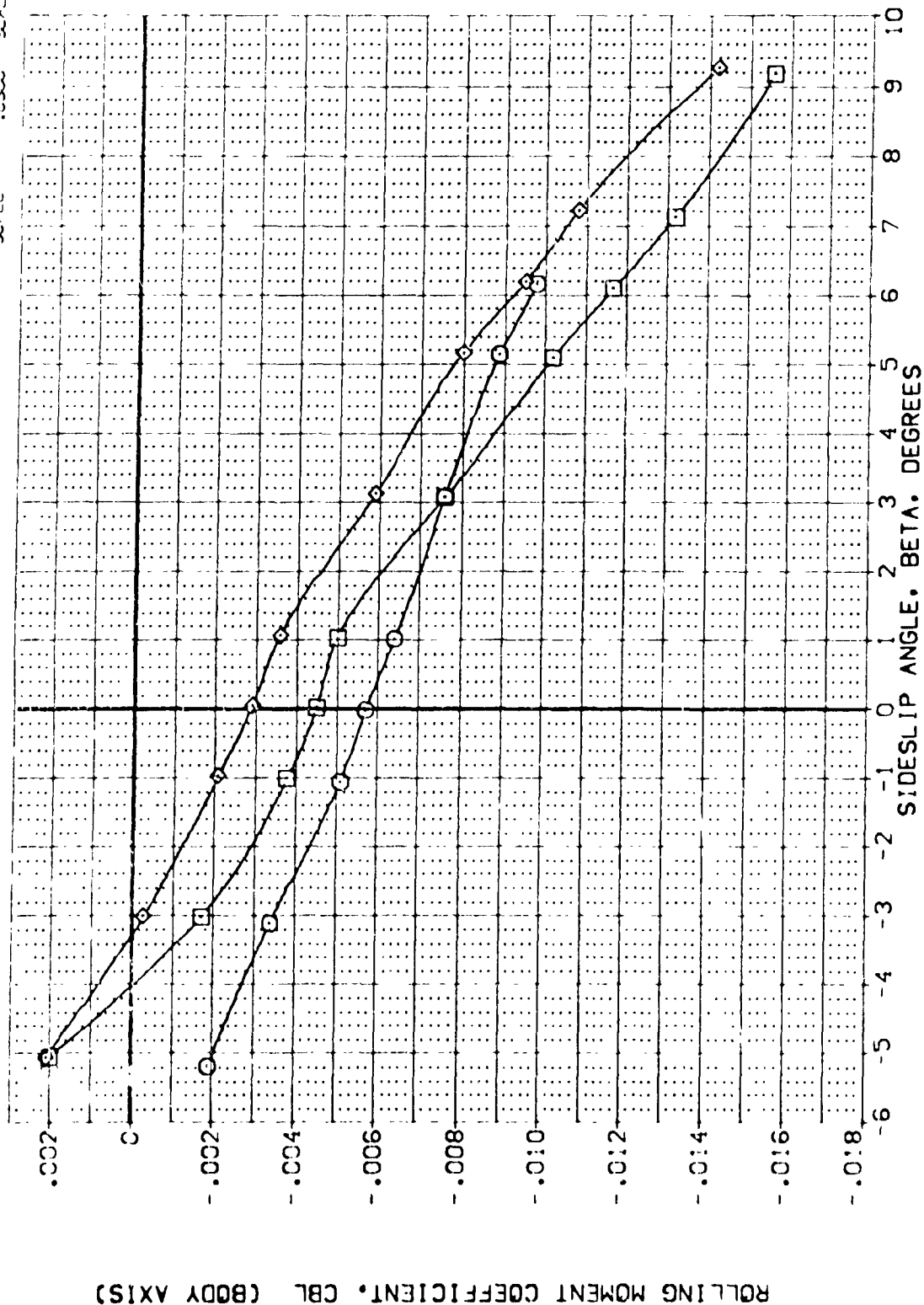


FIG. 19 RUDDER EFFECTS, SPEEDBRAKE 25 DEGREES

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE	US OPERATOR
[AER029]	ARC 97-747 CAS38 B C M F V	0.000	-10.000	-11.700	55.000	SREF	2.4210
[AER030]	ARC 97-747 CAS38 B C M F V	10.000	-10.000	-11.700	55.000	LREF	14.2440
[AER031]	ARC 97-747 CAS38 B C M F V	20.000	-10.000	-11.700	55.000	BREF	28.1000
[AER032]	ARC 97-747 CAS38 B C M F V	10.000	-25.000	-11.700	55.000	XMR0	37.3000
[AER033]	ARC 97-747 CAS38 B C M F V	20.000	-25.000	-11.700	55.000	YMR0	11.5000
[AER034]	ARC 97-747 CAS38 B C M F V	20.000	-25.000	-11.700	55.000	ZMR0	11.5000
						SCALE	0.000

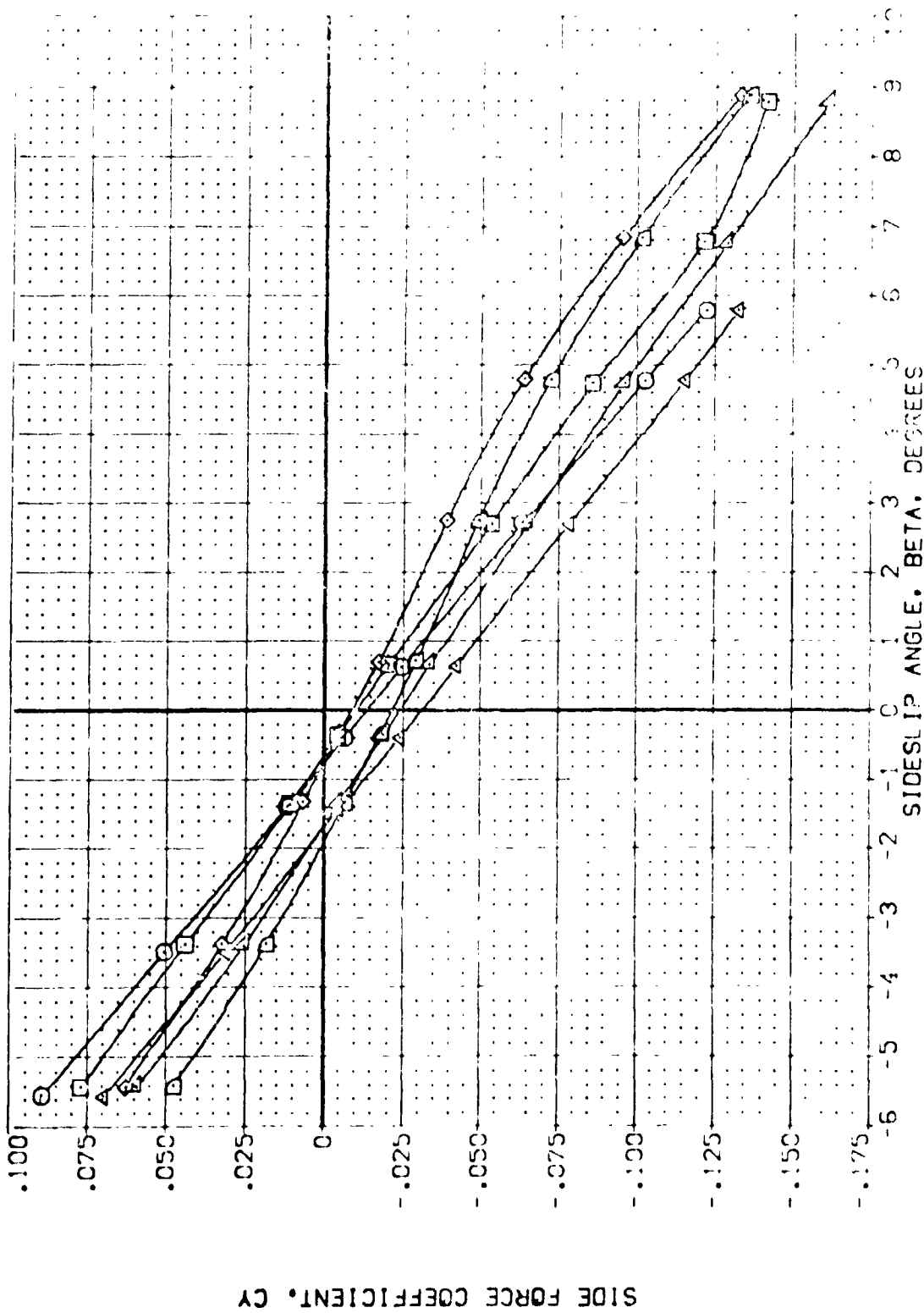


FIG. 20 RUDDER EFFECTS, SPEEDBRAKE 55 DEGREES

(B)MACH = 2.00

DATA SYMBOL	CONFIGURATION DESCRIPTION	NO. R/V/L	ALPHA	RUDDER	BOF LAP	SPEED	REFERENCE INFORMATION
ARC 87-74	24.534 B C C F F V	100	0.000	-10.000	-11.700	55.000	SREF 2.4210
ARC 87-74	24.534 B C C F F V	100	10.000	-10.000	-11.700	55.000	LREF 14.2442
ARC 87-74	24.534 B C C F F V	100	20.000	-10.000	-11.700	55.000	BREF 28.1504
ARC 87-74	24.534 B C C F F V	100	10.000	-25.000	-11.700	55.000	XREF 32.3010
ARC 87-74	24.534 B C C F F V	100	10.000	-25.000	-11.700	55.000	YREF 11.2500
ARC 87-74	24.534 B C C F F V	100	20.000	-25.000	-11.700	55.000	ZREF 1.0000
							SCALE 1.0000

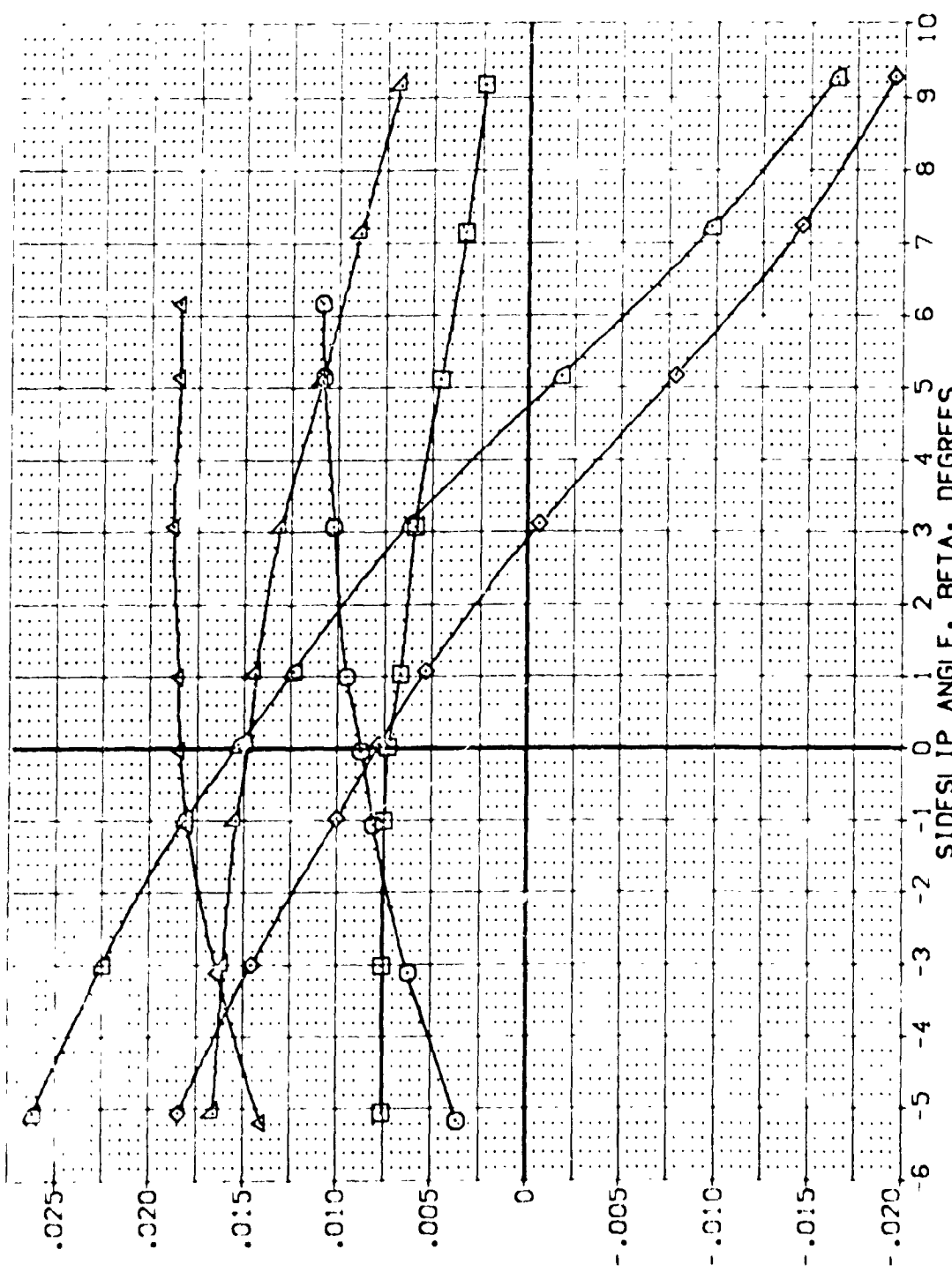


FIG. 20 RUDDER EFFECTS, SPEEDBRAKE 55 DEGREES

(MACH = 1.60)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOE LAP	SPODBRK	REFERENCE IN DEGREES	SCALE
ARC 97-747	CA538 B C M F V1	0.000	-10.000	-11.700	55.000	2.4216	11.0300
ARC 97-747	CA538 B C M F V1	10.000	-10.000	-11.700	55.000	14.1240	11.0300
ARC 97-747	CA538 B C M F V1	20.000	-10.000	-11.700	55.000	28.1000	11.0300
ARC 97-747	CA538 B C M F V1	10.000	-20.000	-11.700	55.000	35.0000	11.0300
ARC 97-747	CA538 B C M F V1	20.000	-20.000	-11.700	55.000	35.0000	11.0300

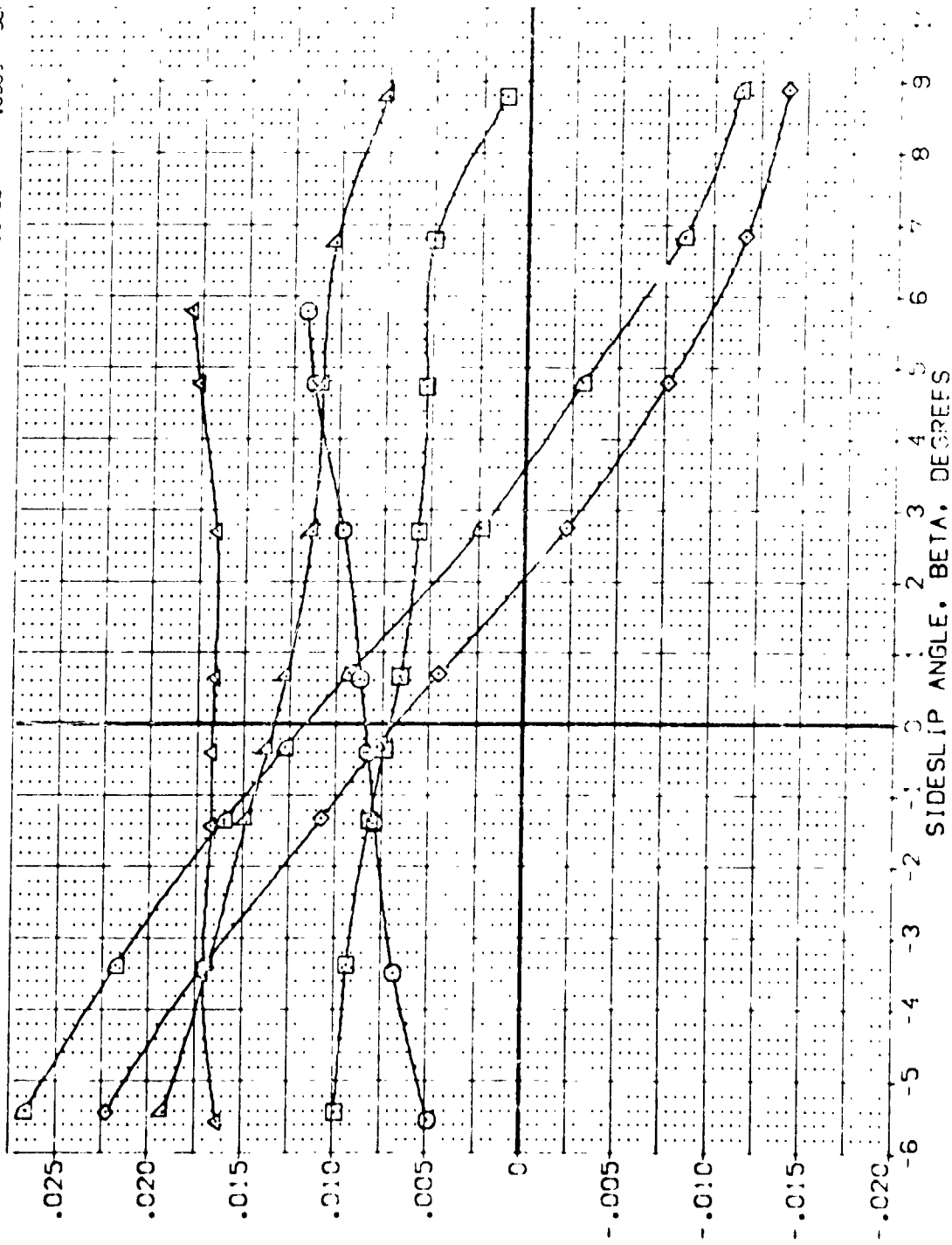


FIG. 20 RUDDER EFFECTS, SPEEDBRAKE 55 DEGREES

(B) VAC = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOG LAP	SPEED	REFERENCE
ARC 97-747	04538 B C M F V	0.000	-10.000	-11.700	55.000	2.4212
ARC 97-747	04538 B C M F V	10.000	-10.000	-11.700	55.000	14.2450
ARC 97-747	04538 B C M F V	20.000	-10.000	-11.700	55.000	28.1004
ARC 97-747	04538 B C M F V	10.000	-20.000	-11.700	55.000	37.3010
ARC 97-747	04538 B C M F V	20.000	-20.000	-11.700	55.000	47.0000
ARC 97-747	04538 B C M F V	10.000	-20.000	-11.700	55.000	57.0000
ARC 97-747	04538 B C M F V	20.000	-20.000	-11.700	55.000	67.0000

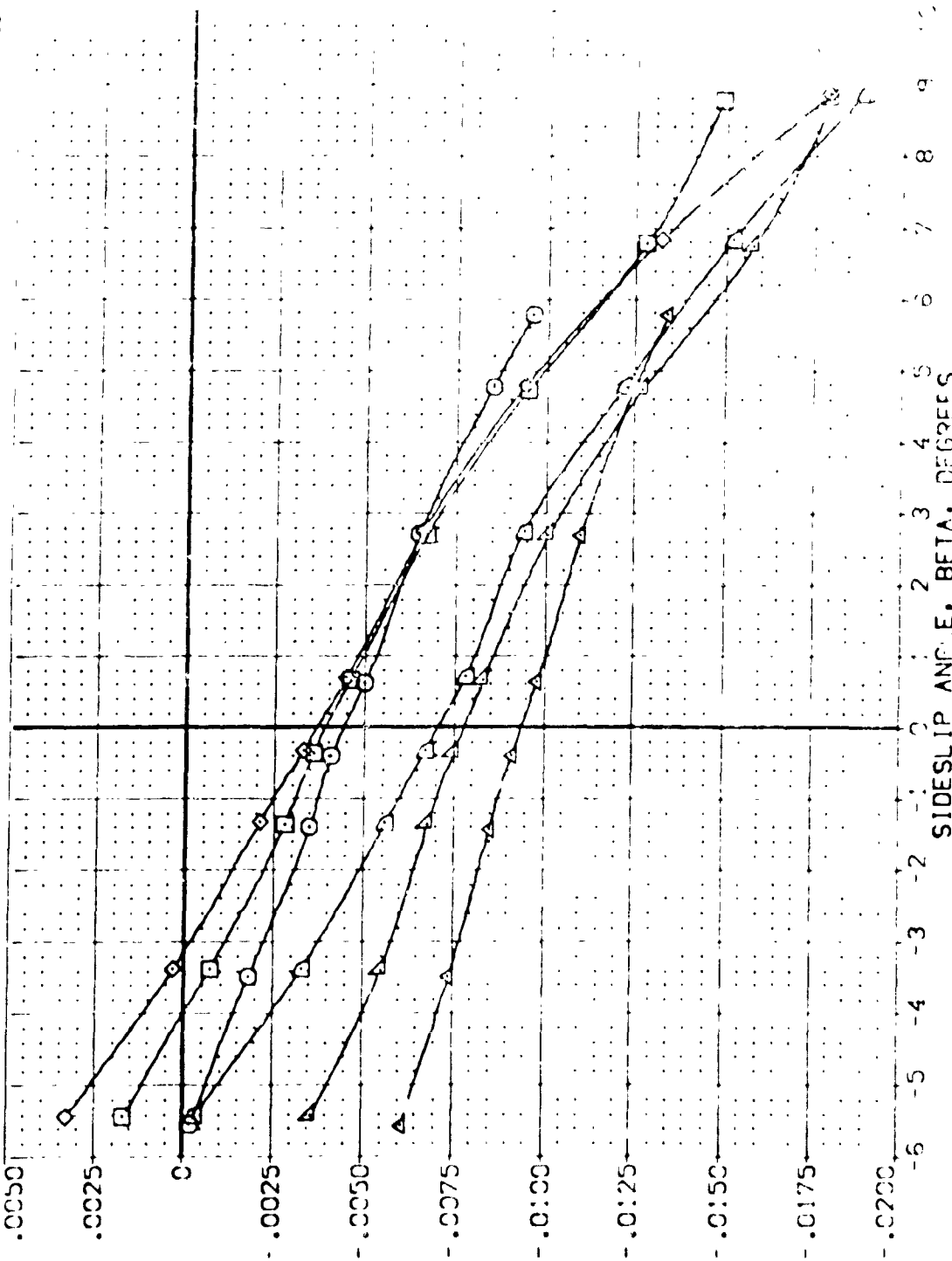


FIG. 20 RUDDER EFFECTS, SPEEDBRAKE 55 DEGREES

(BOMAC) = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
(AE-046)	ARC 97-747 0-538 B C M F V	0.000	-10.000	-11.700	85.000	SREF 2.4210
(AE-047)	ARC 97-747 0-538 B C M F V	10.000	-10.000	-11.700	85.000	LREF 14.2440
(AE-048)	ARC 97-747 0-538 B C M F V	20.000	-10.000	-11.700	85.000	BREF 28.1000
						YMRD 32.3010
						ZMRD .0000
						SCALE 11.7500
						SCALE .0300

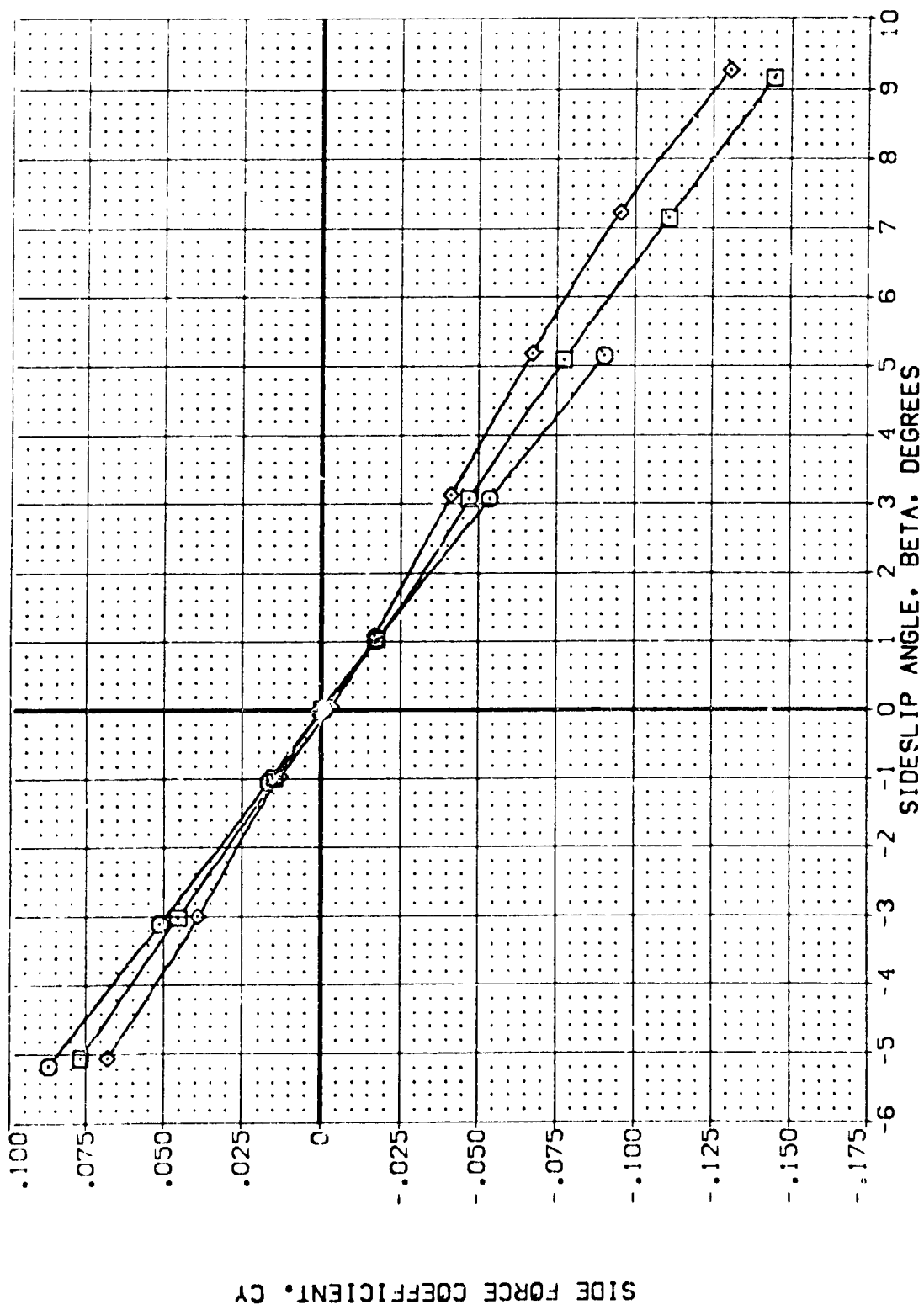


FIG. 21 RUDDER EFFECTS, SPEEDBRAKE 85 DEGREES

(M)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	80% LAP	SPD BRK	REFERENCE INFORMATION
[AEK046]	ARC 97-747 DA538 B C M F V	0.000	-10.000	-11.700	85.000	SREF 2.4210
[AEK047]	ARC 97-747 DA538 B C M F V	10.000	-10.000	-11.700	85.000	LREF 14.2440
[AEK048]	ARC 97-747 DA538 B C M F V	20.000	-10.000	-11.700	85.000	BREF 28.1000
						XREF 32.3010
						YREF 0.0000
						ZREF 11.2500
						SCALE 1.0000

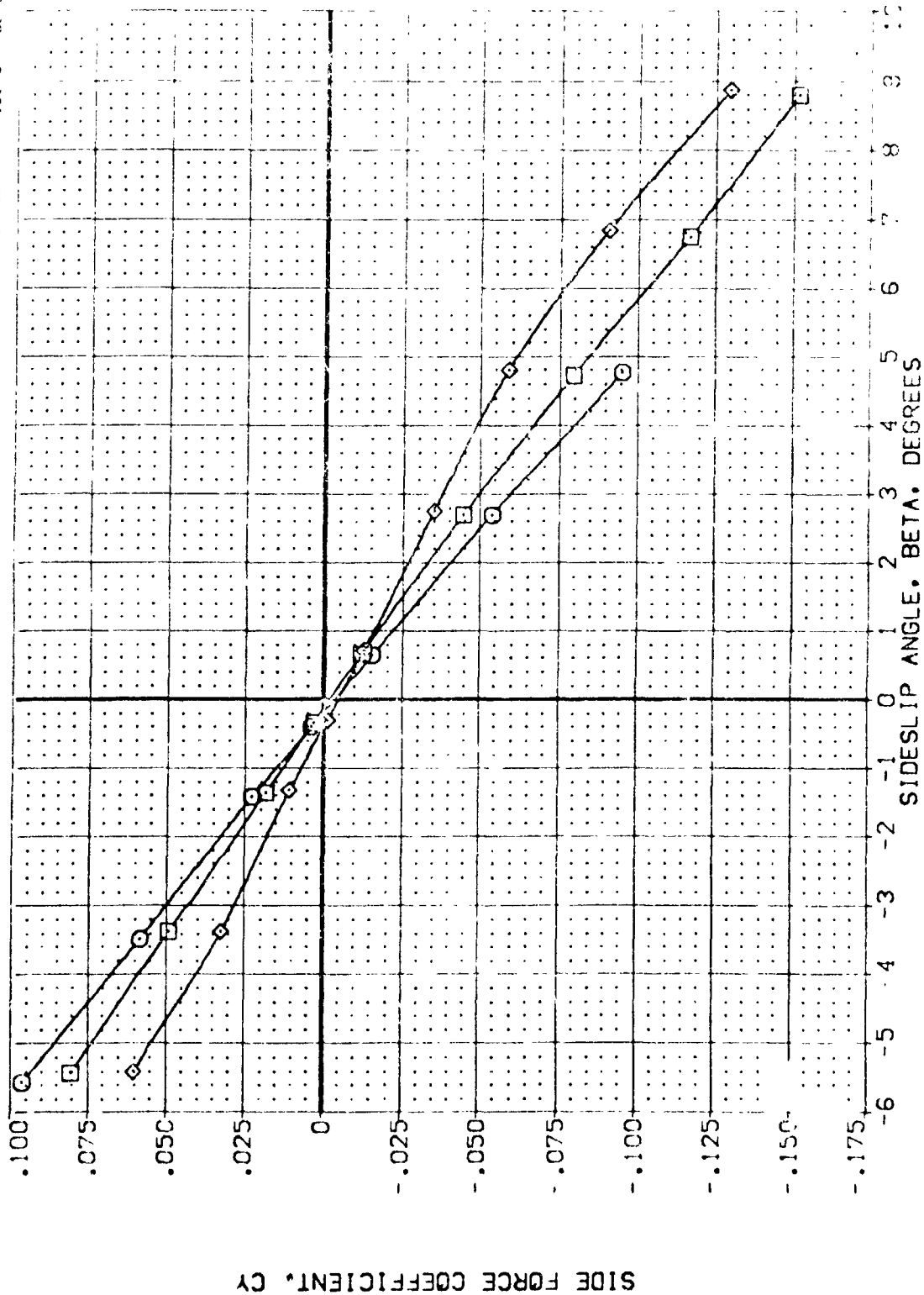


FIG. 21 RUDDER EFFECTS, SPEEDBRAKE 85 DEGREES

MACH = 2.00

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
(AEP-346)	ARC 97-747	24538 B C M F VI	10.000	-10.000	-11.700	85.000	SREF 2.4210 SQ. FT.
(AEP-347)	ARC 97-747	04538 B C M F VI	10.000	-10.000	-11.700	85.000	LREF 14.2440
(AEP-348)	ARC 97-747	04538 B C M F VI	20.000	-10.000	-11.700	85.000	BREF 28.1004
							XMRP 32.3010
							YMRP .0000
							ZMRP 11.7500
							SCALE .0300

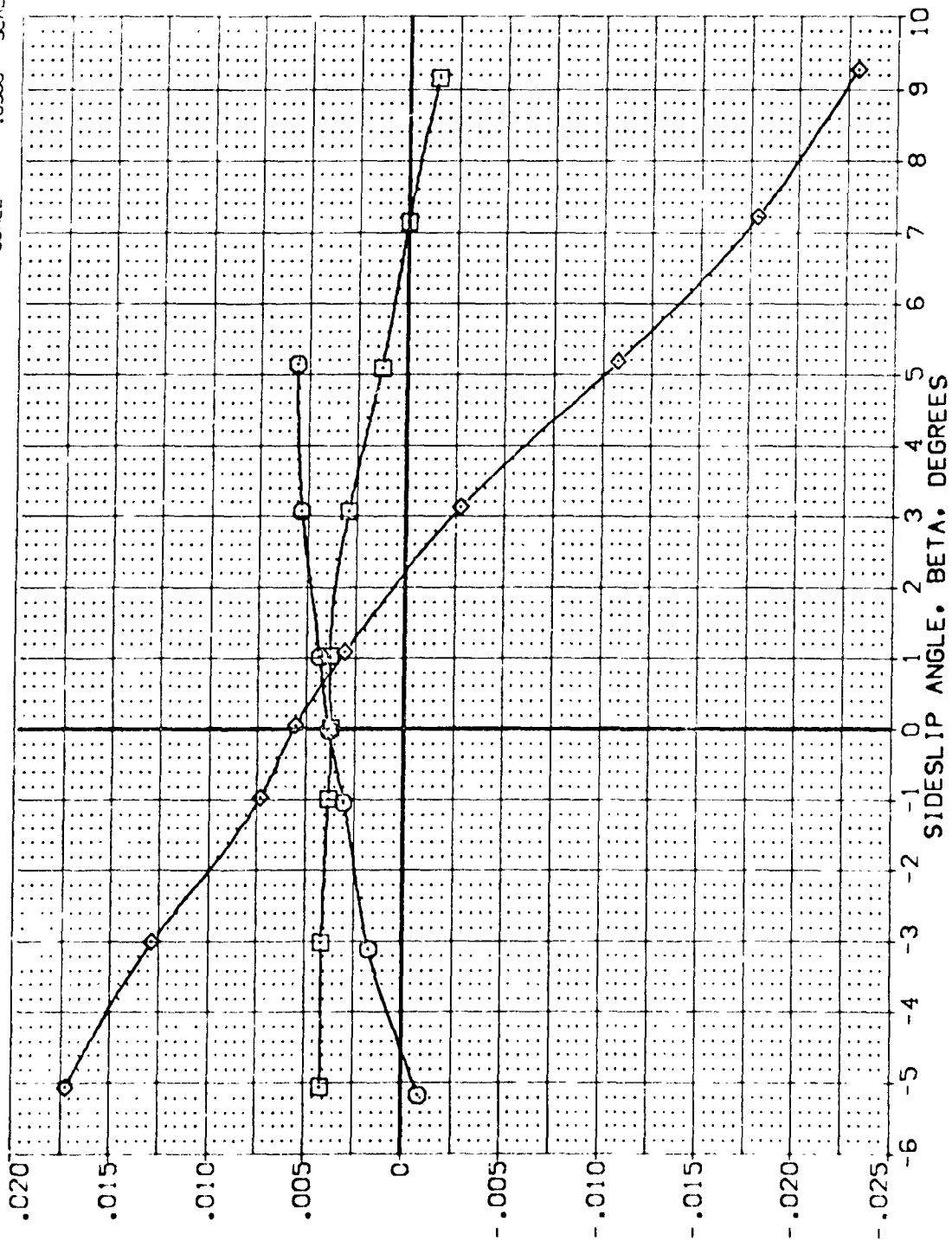
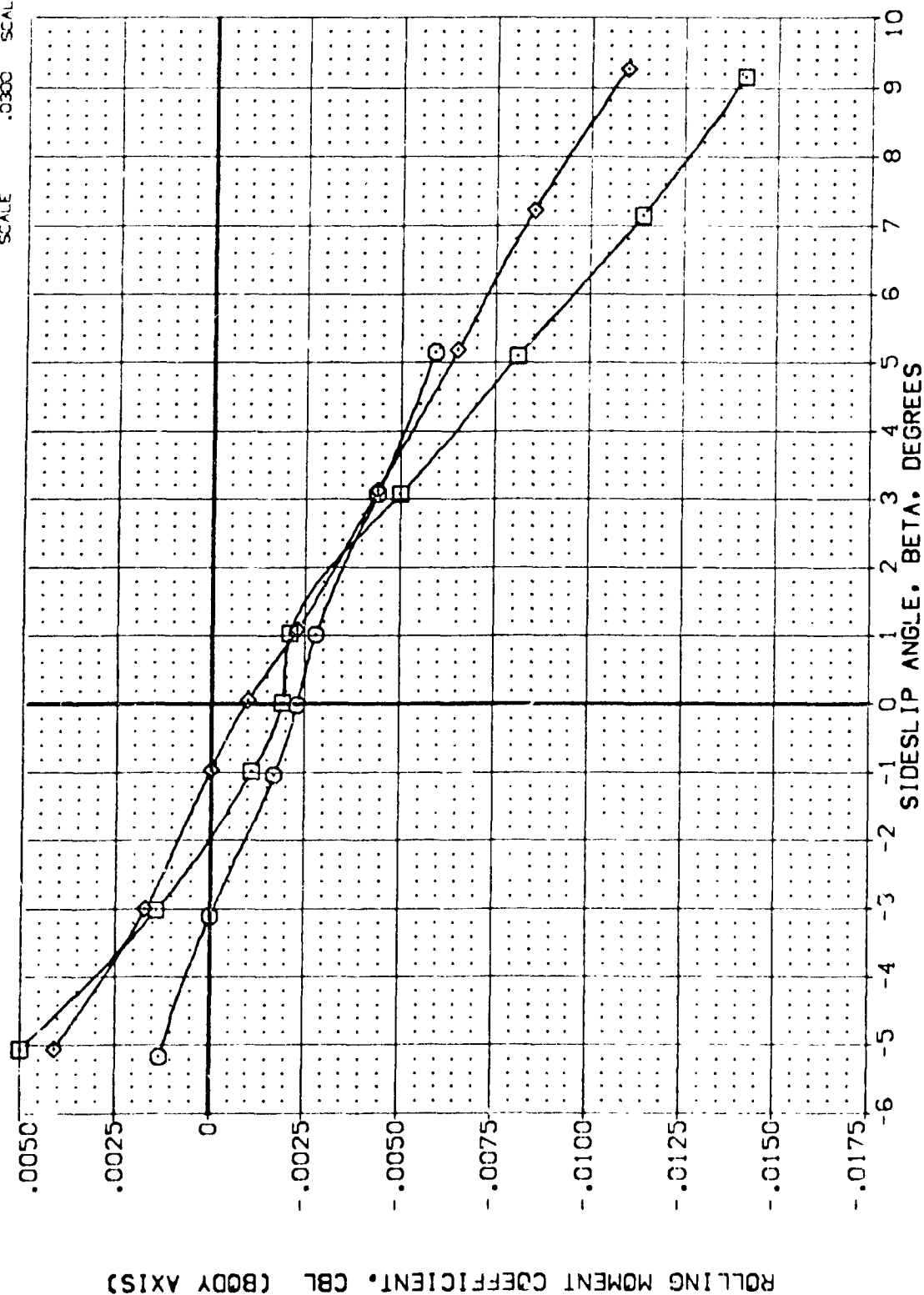


FIG. 21 RUDDER EFFECTS, SPEEDBRAKE 85 DEGREES

(A)MACH = 1.60

DATA SET 5-1000 CONFIGURATION DESCRIPTION

ARC	57-147	DA538	B	C	M	F	V	NOM.	RV/L	ALPHA	RUDDER	BD/LAP	SPDRBK	REFERENCE INFORMATION	ION	
ARC	57-147	DA538	B	C	M	F	V	V	NOM.	RV/L	ALPHA	RUDDER	BD/LAP	SPDRBK	SREF	2.4210
ARC	57-147	DA538	B	C	M	F	V	V	NOM.	RV/L	ALPHA	RUDDER	BD/LAP	SPDRBK	LREF	14.2440
ARC	57-147	DA538	B	C	M	F	V	V	NOM.	RV/L	ALPHA	RUDDER	BD/LAP	SPDRBK	BRF	28.1004
ARC	57-147	DA538	B	C	M	F	V	V	NOM.	RV/L	ALPHA	RUDDER	BD/LAP	SPDRBK	XRDP	32.3010
ARC	57-147	DA538	B	C	M	F	V	V	NOM.	RV/L	ALPHA	RUDDER	BD/LAP	SPDRBK	ZMRP	11.2500
ARC	57-147	DA538	B	C	M	F	V	V	NOM.	RV/L	ALPHA	RUDDER	BD/LAP	SPDRBK	SCALE	.0300



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPODBRK	REFERENCE INFORMATION
[AEK046]	ARC 97-747 QAS38 B C M F V1 V	0.000	-10.000	-11.700	85.000	SREF 2.4213
[AEK047]	ARC 97-747 QAS38 B C M F V1 V	10.000	-10.000	-11.700	85.000	LREF 14.2443
[AEK048]	ARC 97-747 QAS38 B C M F V1 V	20.000	-10.000	-11.700	85.000	BREF 28.1004
						XMRP 32.13013
						YMRP 11.2000
						ZMRP 12.0000
						SCALE .0000

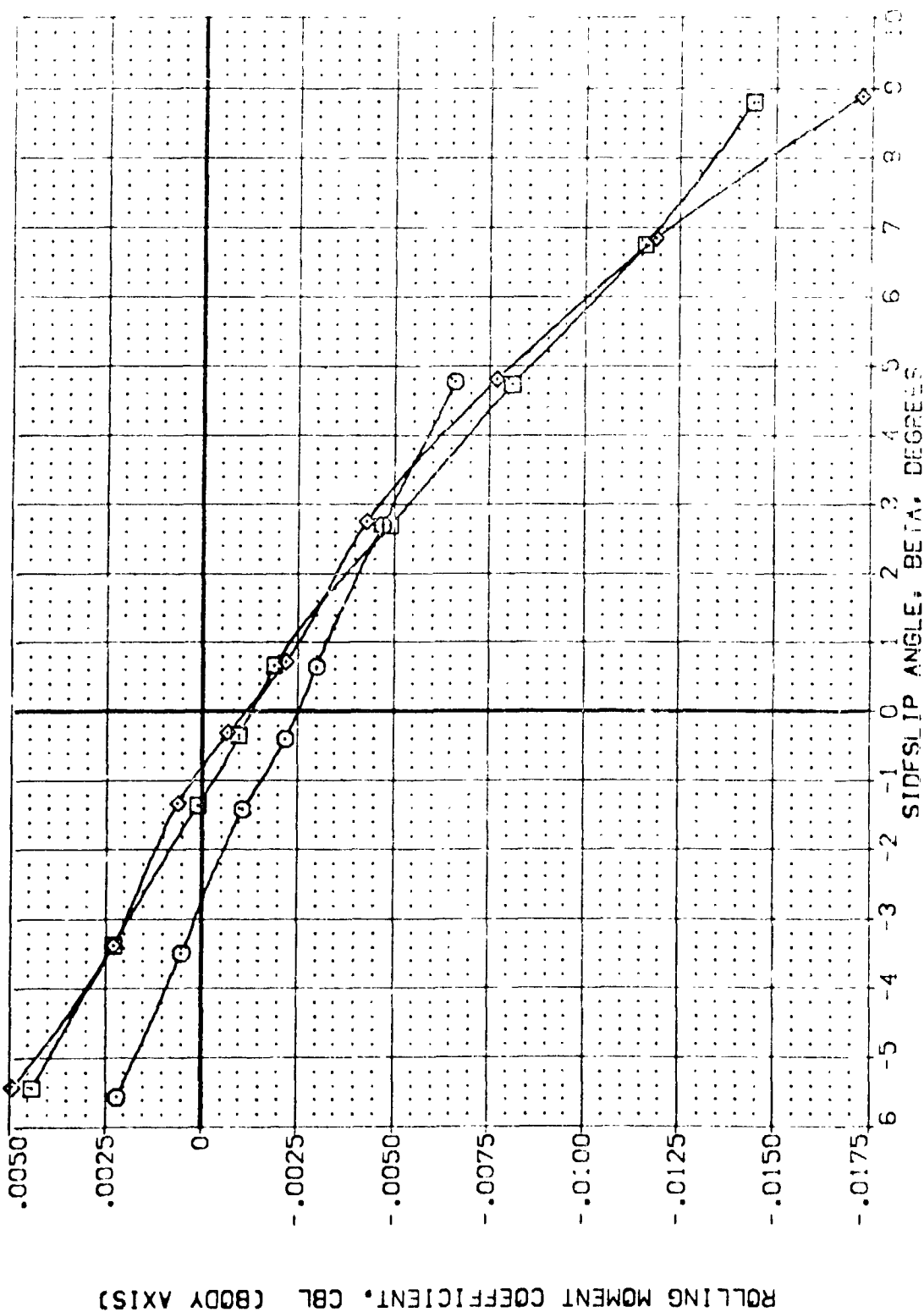
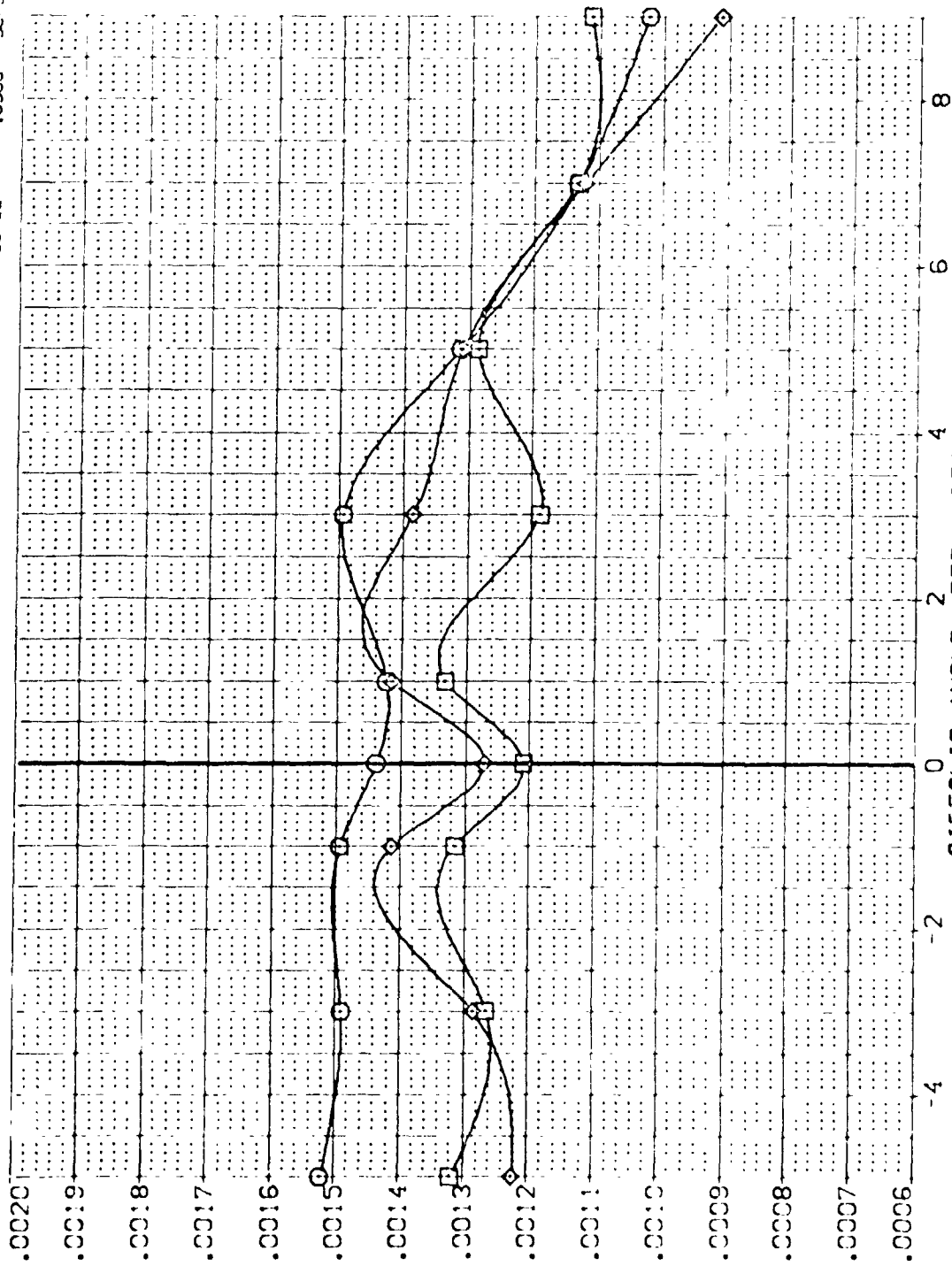


FIG. 21 RUDDER EFFECTS, SPEEDBRAKE 85 DEGREES

(B)MACH = 2.00

DATA SET CONTROL CONFIGURATION OF SPEED
 (VER) 35) 1) APT 97-747 CAS38 B C M F V) ✓
 (VER) 36) 1) APT 97-747 CAS38 B C M F V) ✓
 (VER) 37) 1) APT 97-747 CAS38 B C M F V) ✓
 (VER) 38) 1) APT 97-747 CAS38 B C M F V) ✓

ALPHA DR BDF LAP SPEED REFERENCE INFORMATION
 .000 -10.000 -1.700 25.000 SREF 2.4210 SQ.FT.
 10.000 -10.000 -1.700 25.000 LREF 14.2440
 20.000 -10.000 -1.700 25.000 BREF 28.1004
 XREF 32.3010
 YREF .0000
 ZREF 11.2500
 SCALE .0000



SIDE FORCE DUE TO RUDDER, DCY/DR, PER DEGREE

SIDESLIP ANGLE, BETA, DEGREES

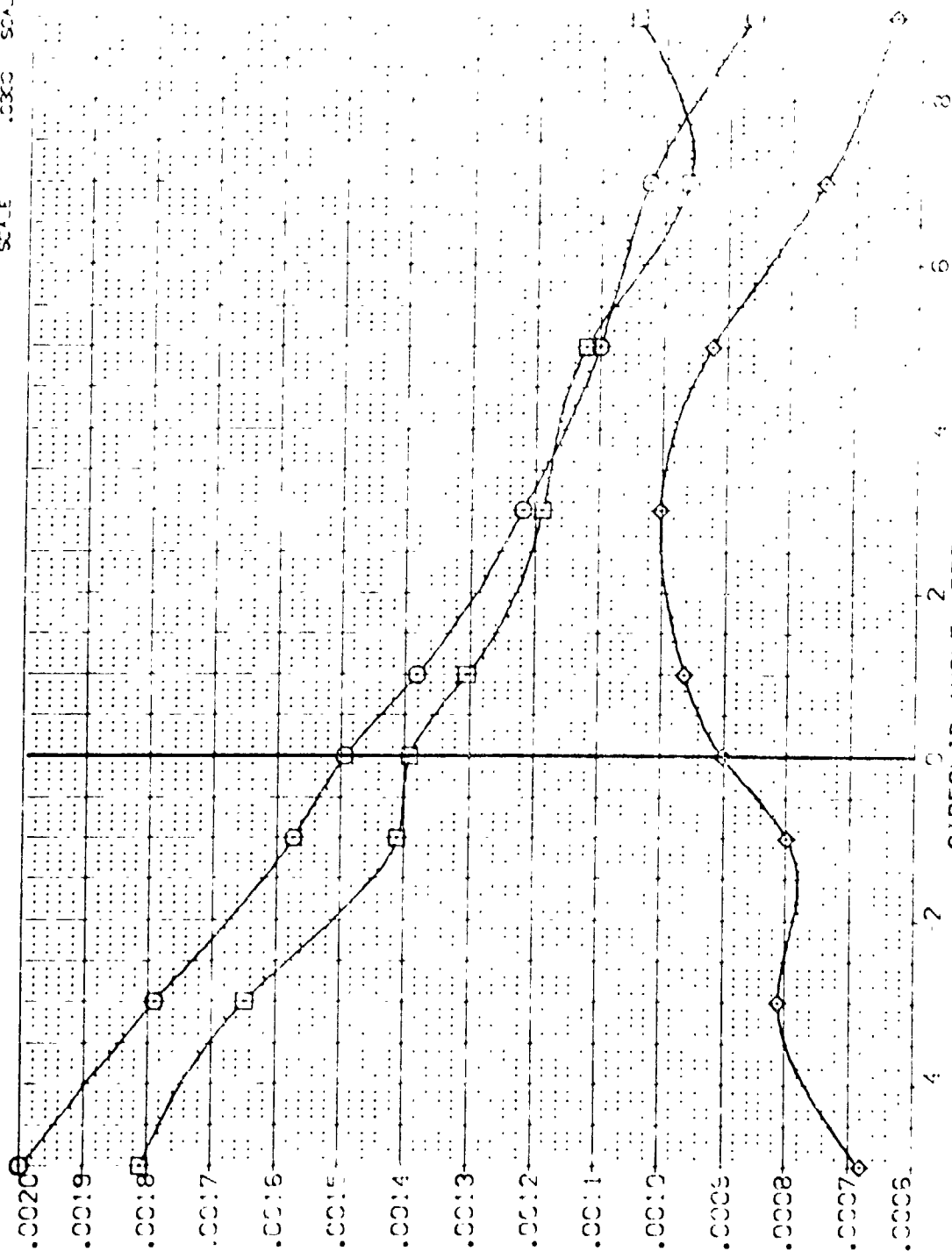
FIG. 22 RUDDER DERIVATIVES, SPEEDBRAKE 25 DEGREES

(A) MAC = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VEP025) ARC 97-747 D4538 B C M F V V NOM: RV/L
 (VEP036) ARC 97-747 D4538 B C M F V V NOM: RV/L
 (VEP037) ARC 97-747 D4538 B C M F V V NOM: RV/L

ALPHA DR BOG LAP SPODBK
 .000 -10.000 -11.700 25.000
 10.000 -10.000 -11.700 25.000
 20.000 -10.000 -11.700 25.000

REFERENCE 11.530
 SREF 2.4210 50.000
 LREF 14.0240 50.000
 UREF 28.0000 50.000
 YREF 32.0000 50.000
 YREF 11.0000 50.000
 SCALE 1.0000 50.000



SIDESLIP ANGLE, BETA, DEGREES

FIG. 22 RUDDER DERIVATIVES, SPEEDBRAKE 25 DEGREES

(BETA) - 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 1 97-747 2538 B C E F V Y 100% RWL
 2 97-747 2538 B C E F V Y 100% RWL
 3 97-747 2538 B C E F V Y 100% RWL

ALPHA DR BDF AP SPEEDY
 1000 -10.000 -11.700 75.000
 10000 -10.000 -11.700 75.000
 20000 -10.000 -11.700 75.000

REFERENCE INFORMATION
 SPEED 2.420 SCALE
 DUE 14.2440
 8000 28.1000
 1000 32.3000
 2000 11.2500
 SCALE 1000

YAWING MOMENT DUE TO RUDDER, DCYNDR, PER DEGREE, (BODY AXIS)

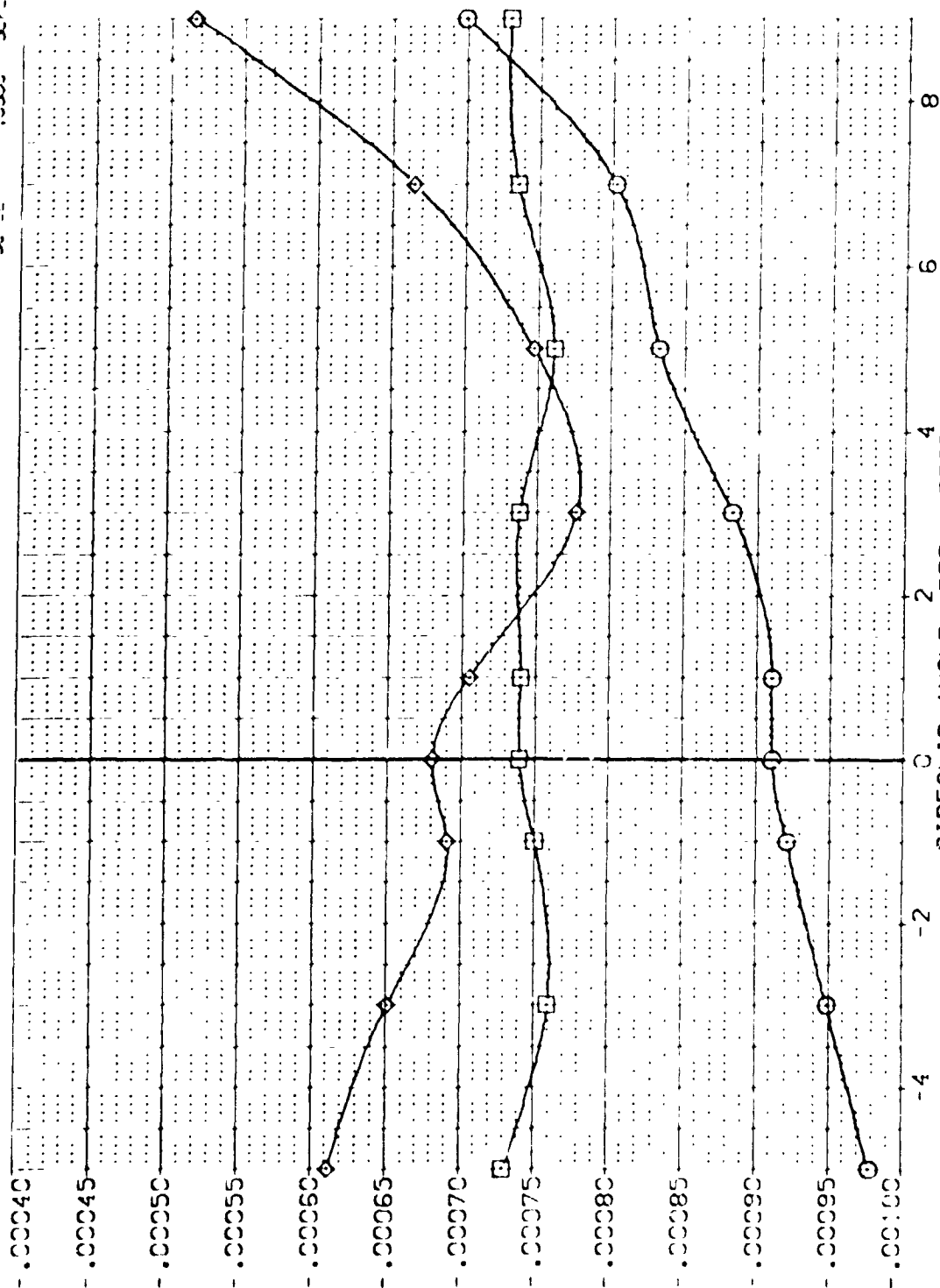


FIG. 22 RUDDER DERIVATIVES, SPEEDBRAKE 25 DEGREES

CADWAC = 1.60

YAWING MOMENT DUE TO RUDDER, DCYNDR, PER DEGREE, (BODY AXIS)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	DR	BDFLAP	SPOBPK	REFERENCE INFORMATION
[VEK036]	ARC 97-747 QAS38 B C H F VI V	0000	-10:000	-11:700	23:000	2-2100 SCALE
[VEP036]	ARC 97-747 QAS38 B C H F VI V	0000	-10:000	-11:700	23:000	14-2440 SCALE
[VEPC37]	ARC 97-747 QAS38 B C H F VI V	10:000	-10:000	-11:700	23:000	28-3004 SCALE
		20:000	-10:000	-11:700	23:000	32-8000 SCALE
						YRBP YRBP
						ZRBP ZRBP
						SCALE SCALE

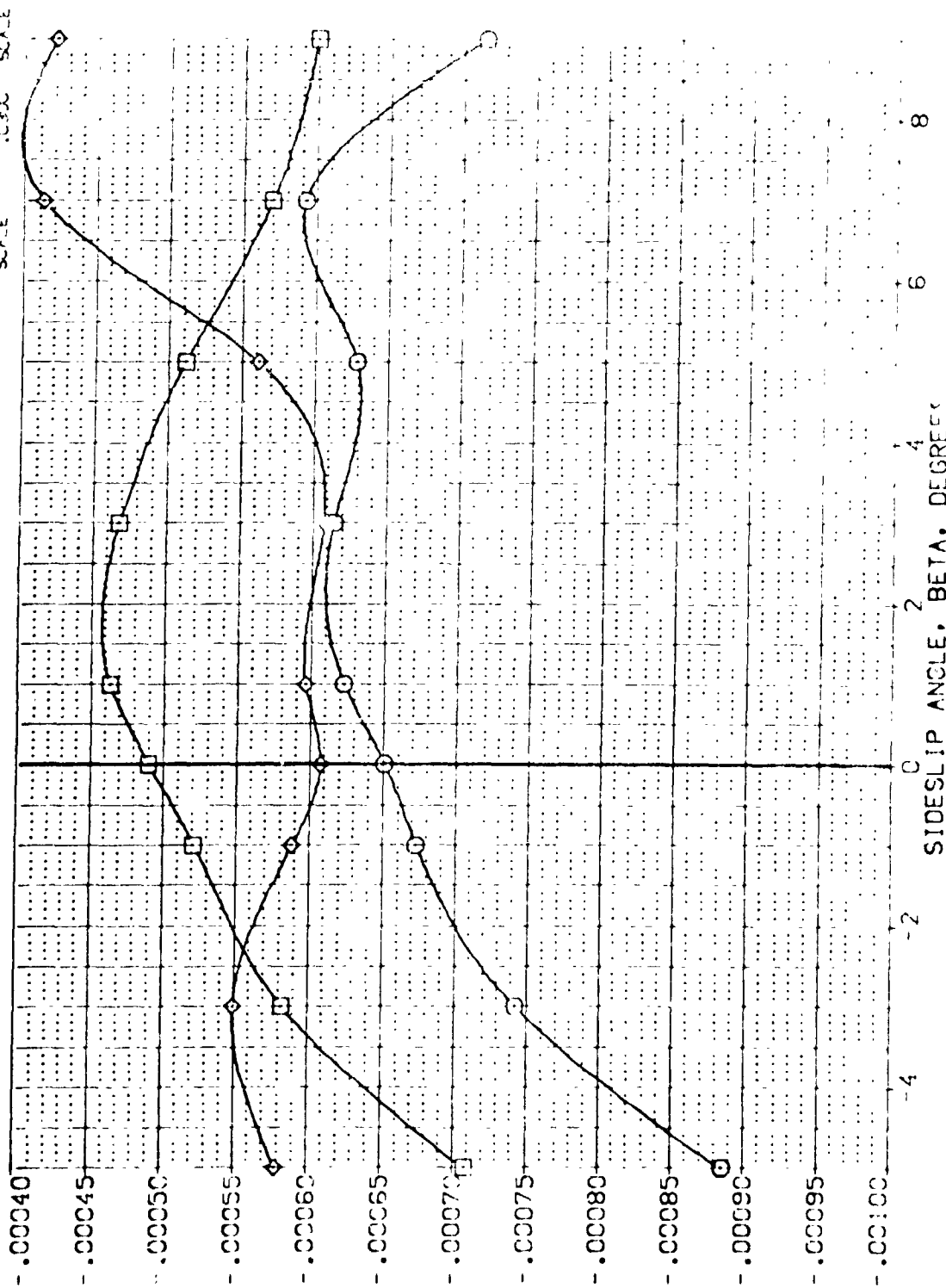


FIG. 22 RUDDER DERIVATIVES, SPEEDBRAKE 25 DEGREES

$$(B)_{MAC} = 2.00$$

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VER 035) ○ ARC 97-247 CAS38 B C M F V V ND- RV/L
 (VER 036) ○ ARC 97-247 CAS38 B C M F V V ND- RV/L
 (VER 037) ○ ARC 97-247 CAS38 B C M F V V ND- RV/L

ALPHA DR BOFLAP SPEEDS
 .000 -10.000 -11.700 25.000
 10.000 -10.000 -11.700 25.000
 20.000 -10.000 -11.700 25.000

REFERENCE INFORMATION
 SPREF 2.4210 SQ.FT.
 RPREF 14.2440
 BPREF 28.1004
 XMRD 32.3010
 YMRD 11.2500
 ZMRD 1.0300
 SCALE

ROLLING MOMENT DUE TO RUDDER, DCBLDR, PER DEGREE, (BODY AXIS)

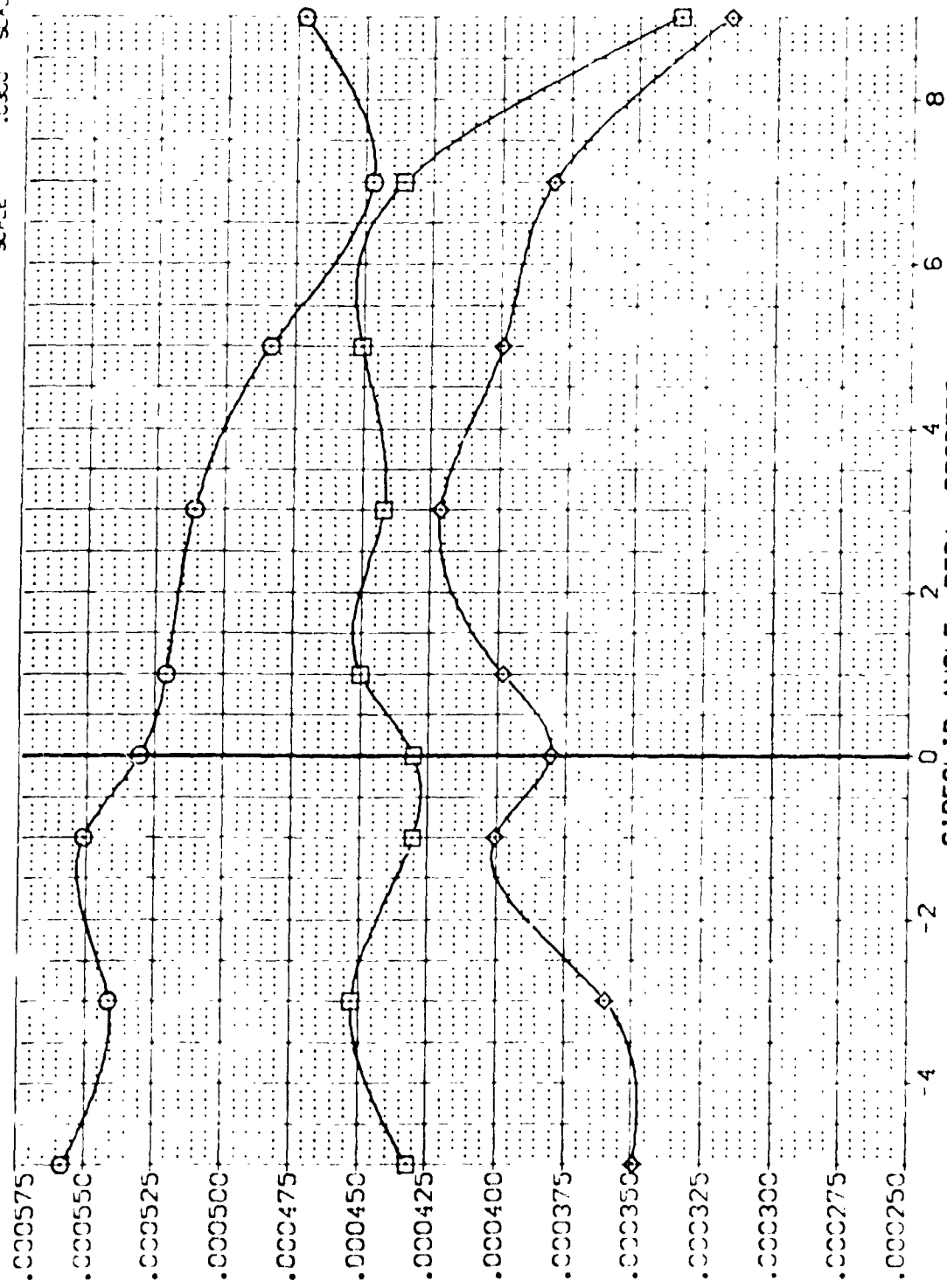


FIG. 22 RUDDER DERIVATIVES, SPEEDBRAKE 25 DEGREES

CALMAC 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	DR	BOJ LAP	SPDBRK	REFERENCE INFORMATION
(VER036)	ARC 97-747 QAS38 B C H F VI V	0.000	-10.000	-11.700	25.000	SREF 2.4710
(VER036)	ARC 97-747 QAS38 B C H F VI V	10.000	-10.000	-11.700	25.000	LRFF 14.2445
(VER037)	ARC 97-747 QAS38 B C H F VI V	20.000	-10.000	-11.700	25.000	BRFF 28.1004
						XRFF 30.3010
						YMRD 11.5000
						ZMRD 11.5000
						SCALE 1.0000

ROLLING MOMENT DUE TO RUDDER, DCBLDR, PER DEGREE, (BODY AXIS)

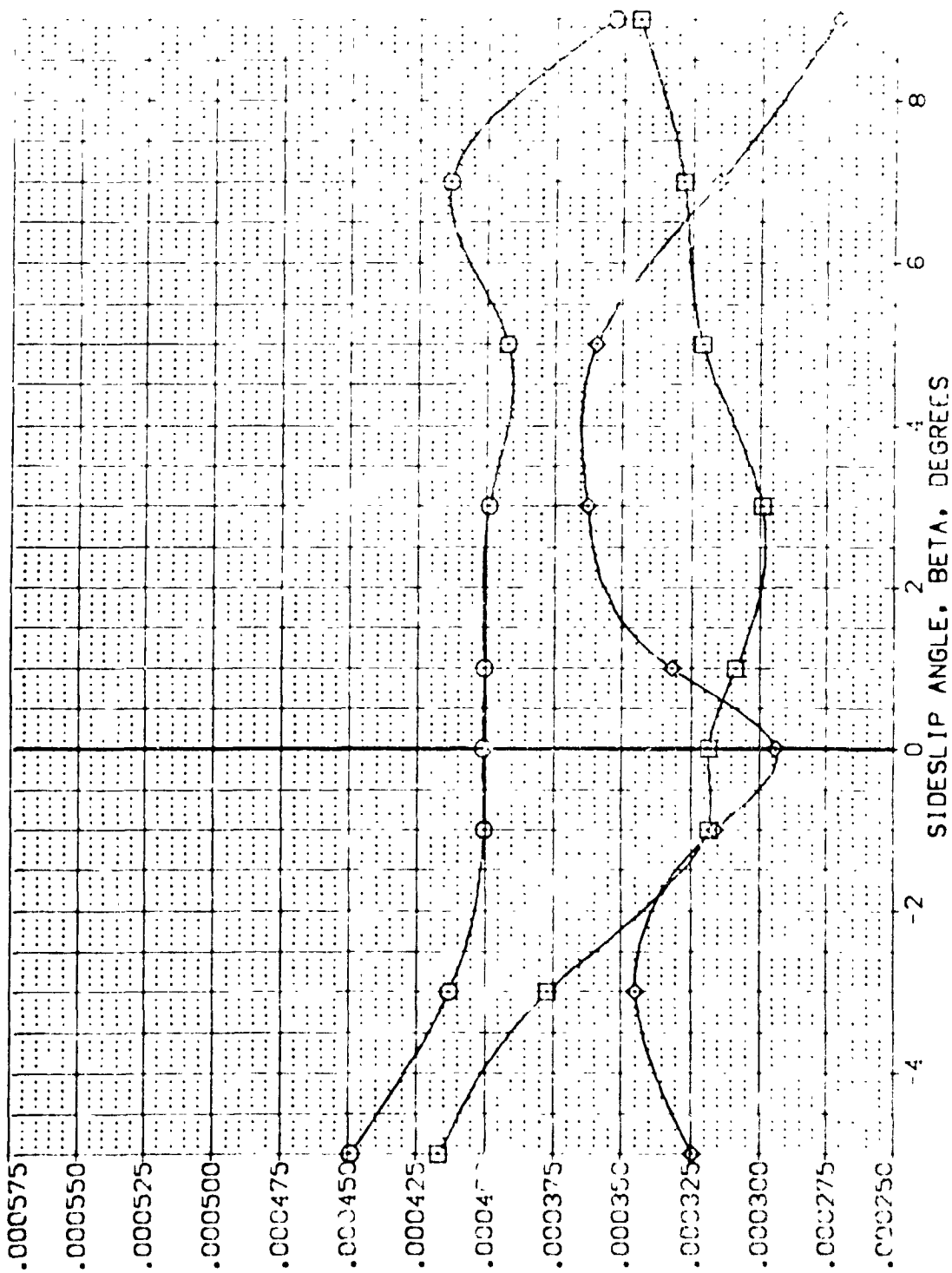


FIG. 22 RUDDER DERIVATIVES, SPEEDBRAKE 25 DEGREES

(3) MACH = 2.00

PITCHING MOMENT COEFF. DERIV. WRT RUDDER DEF., DCLMR, PER DEG.

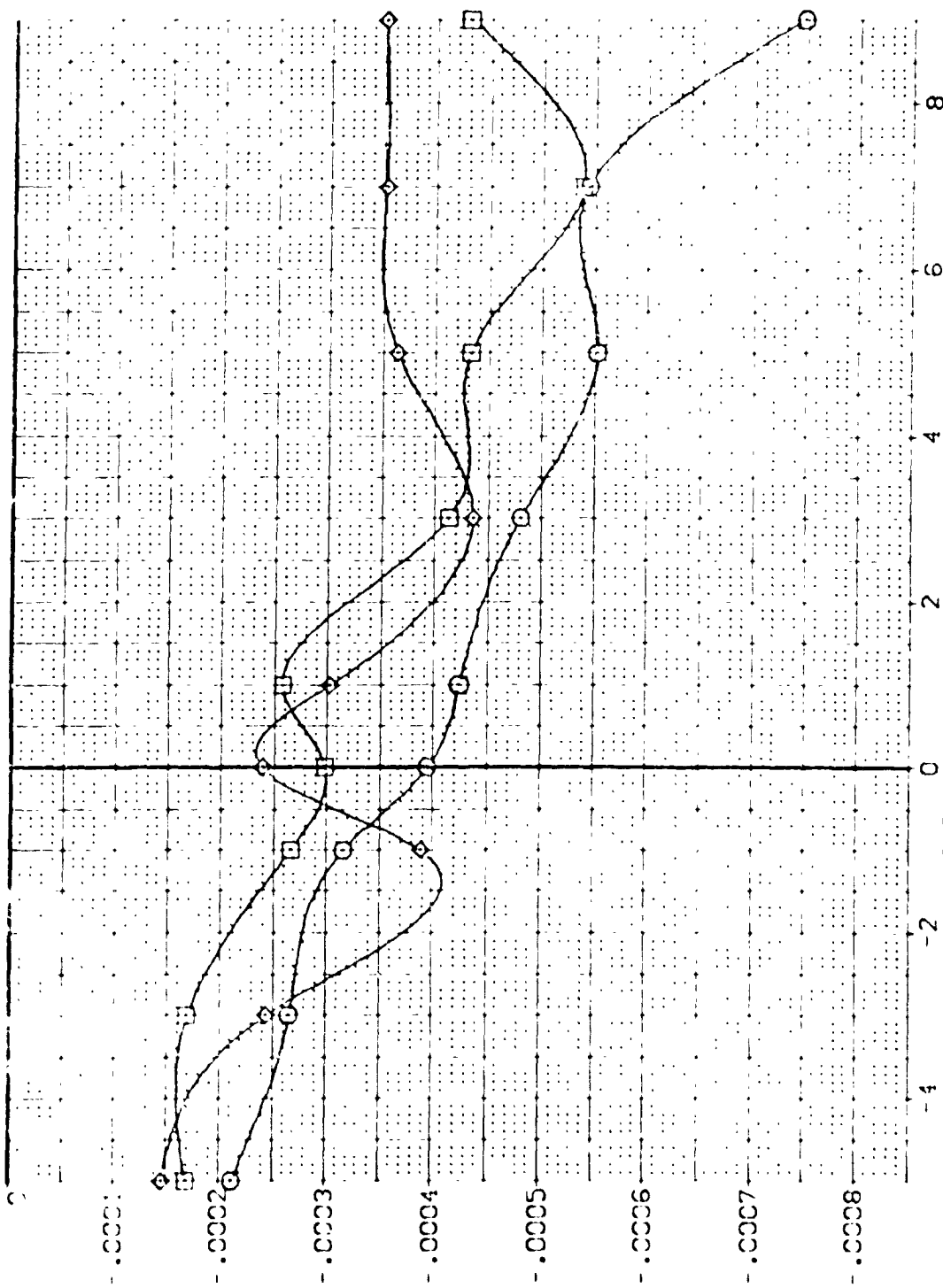


FIG. 22 RUDDER DERIVATIVES, SPEEDBRAKE 25 DEGREES

$$(A) \omega(A) = 1.60$$

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VE-035) □ ARC 97-747 DAS38 B C H F V V
 (VE-036) ◇ ARC 97-747 DAS38 B C H F V V
 (VE-037) ◇ ARC 97-747 DAS38 B C H F V V

ALPHA DR BOFLAP SPEEDBRK
 10.000 -10.000 -11.700 25.000
 20.000 -10.000 -11.700 25.000
 20.000 -10.000 -11.700 25.000

REFERENCE INFORMATION
 SPEED 2.4210
 RATE 14.2440
 RPO 28.1000
 YRPO 3.7000
 YRPO 1.0000
 SCALE 10.000

PITCHING MOMENT COEFF. DERIV. WRT RUDDER DEFL., DCLMDR, PER DEG

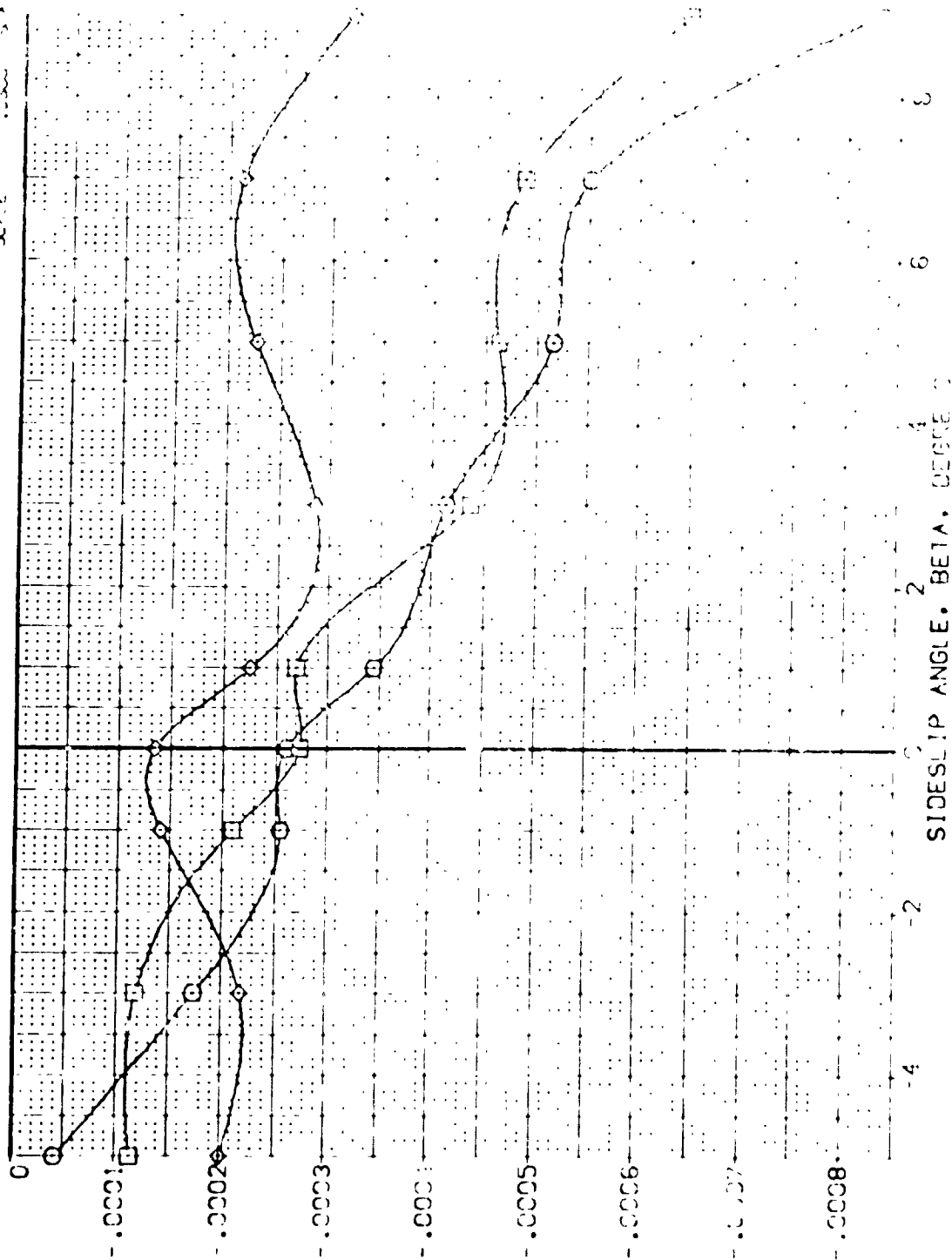


FIG. 22 RUDDER DERIVATIVES, SPEEDBRAKE 25 DEGREES

(30) MAG. = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NO.	RV/L	ALPHA	DR	30F LAP	SPEEDYK	REFERENCE	IN-OR-A	100	SCALE
(VEK029)	ARC 97-747 GA538 B C M F V I V	NO.	RV/L	0.000	-10.000	-11.700	55.000	SREF	2.42.0	2.42.0	10.000
(VEK030)	ARC 97-747 GA538 B C M F V I V	NO.	RV/L	10.000	-10.000	-11.700	55.000	LREF	14.14.0	14.14.0	10.000
(VEK031)	ARC 97-747 GA538 B C M F V I V	NO.	RV/L	20.000	-10.000	-11.700	55.000	BREF	28.10.0	28.10.0	10.000
(VEK032)	ARC 97-747 GA538 B C M F V I V	NO.	RV/L	10.000	-20.000	-11.700	55.000	YMRD	32.10.0	32.10.0	10.000
(VEK033)	ARC 97-747 GA538 B C M F V I V	NO.	RV/L	10.000	-20.000	-11.700	55.000	ZMRD	1.00.0	1.00.0	10.000
(VEK034)	ARC 97-747 GA538 B C M F V I V	NO.	RV/L	20.000	-20.000	-11.700	55.000	SCALE	1.00.0	1.00.0	10.000

SIDE FORCE DUE TO RUDDER, DCY/DR, PER DEGREE

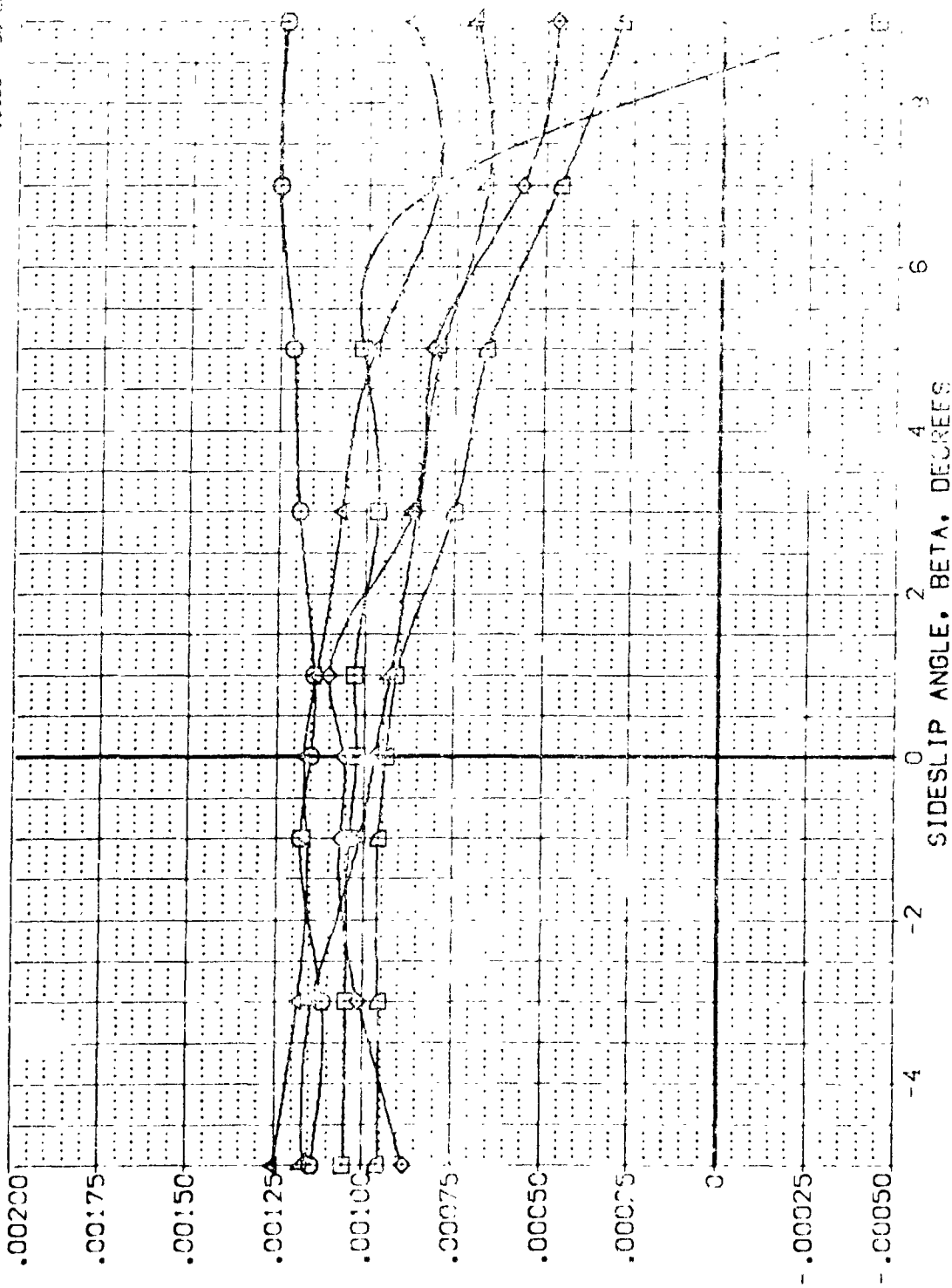


FIG. 23 RUDDER DERIVATIVES, SPEEDBRAKE 55 DEGREES

(B)MACH = 2.00

DATA SET SYMBOL
[VER029]
[VER030]
[VER031]
[VER032]
[VER033]
[VER034]

CONFIGURATION DESCRIPTION
ARC 97-747 C4538 B
ARC 97-747 C4538 B
ARC 97-747 C4538 B
ARC 97-747 C4538 B
ARC 97-747 C4538 B
ARC 97-747 C4538 B

NON-RN/L
NON-RN/L
NON-RN/L
NON-RN/L
NON-RN/L
NON-RN/L

ALPHA
-10.000
-10.000
-10.000
-10.000
-10.000
-10.000

OR
-10.000
-10.000
-10.000
-10.000
-10.000
-10.000

BOLAP
-11.700
-11.700
-11.700
-11.700
-11.700
-11.700

SPOBRK
55.000
55.000
55.000
55.000
55.000
55.000

REFERENCE INFORMATION
SPREF 2.4210 SQ.FT.
LREF 14.2440
BREF 78.1004
VREF 37.3010
ZREF 11.7500
SCALE

YAWING MOMENT DUE TO RUDDER, DCYNDR, PER DEGREE, (BODY AXIS)

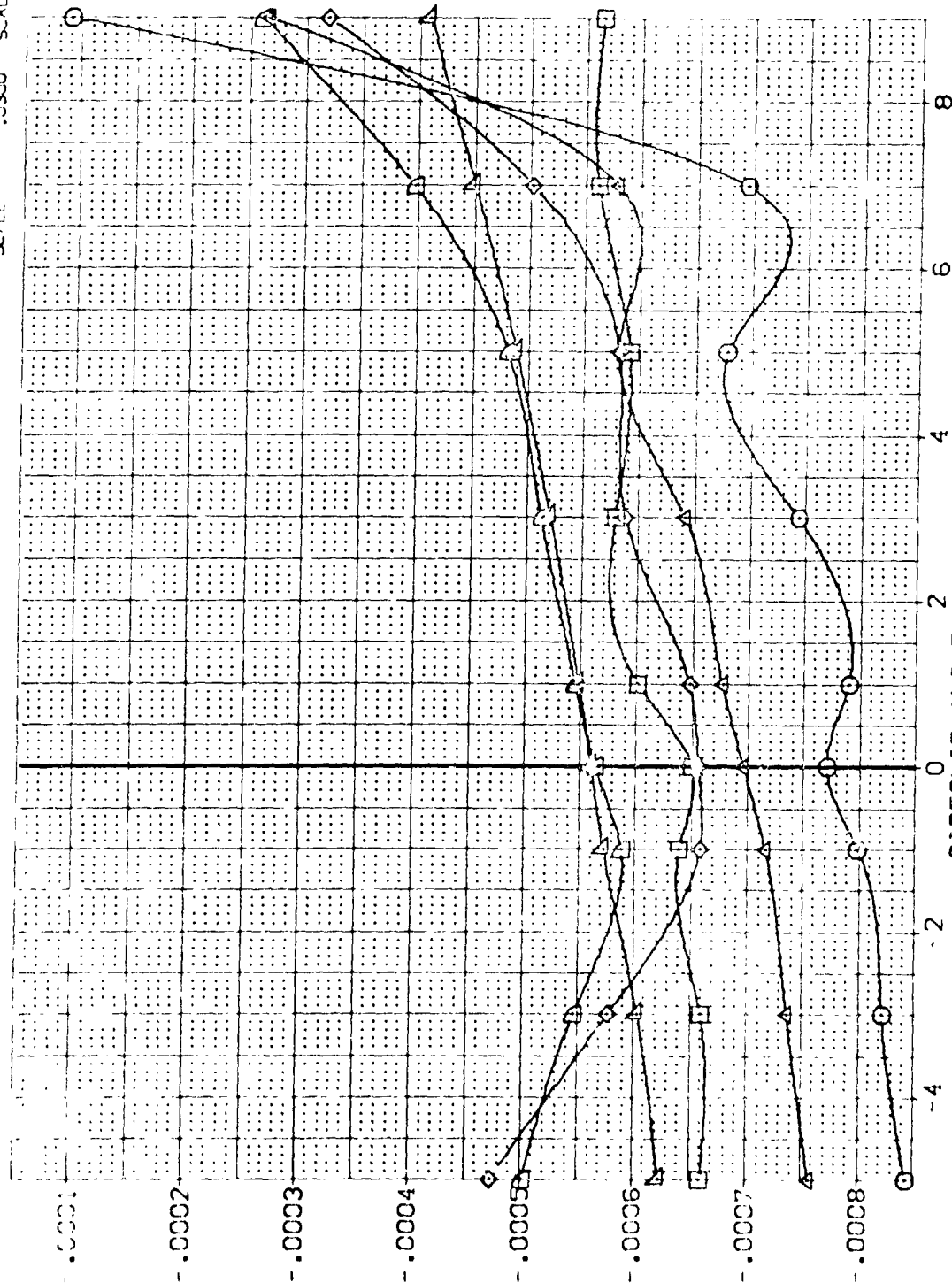


FIG. 23 RUDDER DERIVATIVES, SPEEDBRAKE 55 DEGREES

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	ALPHA	DR	BOFLAP	SPOBRK	REFERENCE	IN-DMA	SCALE
(VERC31)	ARC 97-747	DA538 B C M F V	0.000	-10.000	-11.700	55.000	2.4210	SC	
(VERC32)	ARC 97-747	DA538 B C M F V	10.000	-10.000	-11.700	55.000	14.7110	SC	
(VERC33)	ARC 97-747	DA538 B C M F V	20.000	-10.000	-11.700	55.000	28.1000	SC	
(VERC34)	ARC 97-747	DA538 B C M F V	30.000	-25.000	-11.700	55.000	32.1000	SC	
(VERC35)	ARC 97-747	DA538 B C M F V	40.000	-25.000	-11.700	55.000	32.1000	SC	
(VERC36)	ARC 97-747	DA538 B C M F V	50.000	-25.000	-11.700	55.000	32.1000	SC	
(VERC37)	ARC 97-747	DA538 B C M F V	60.000	-25.000	-11.700	55.000	32.1000	SC	
(VERC38)	ARC 97-747	DA538 B C M F V	70.000	-25.000	-11.700	55.000	32.1000	SC	
(VERC39)	ARC 97-747	DA538 B C M F V	80.000	-25.000	-11.700	55.000	32.1000	SC	
(VERC40)	ARC 97-747	DA538 B C M F V	90.000	-25.000	-11.700	55.000	32.1000	SC	

YAWING MOMENT DUE TO RUDDER, DCYNDR, PER DEGREE, (BODY AXIS)

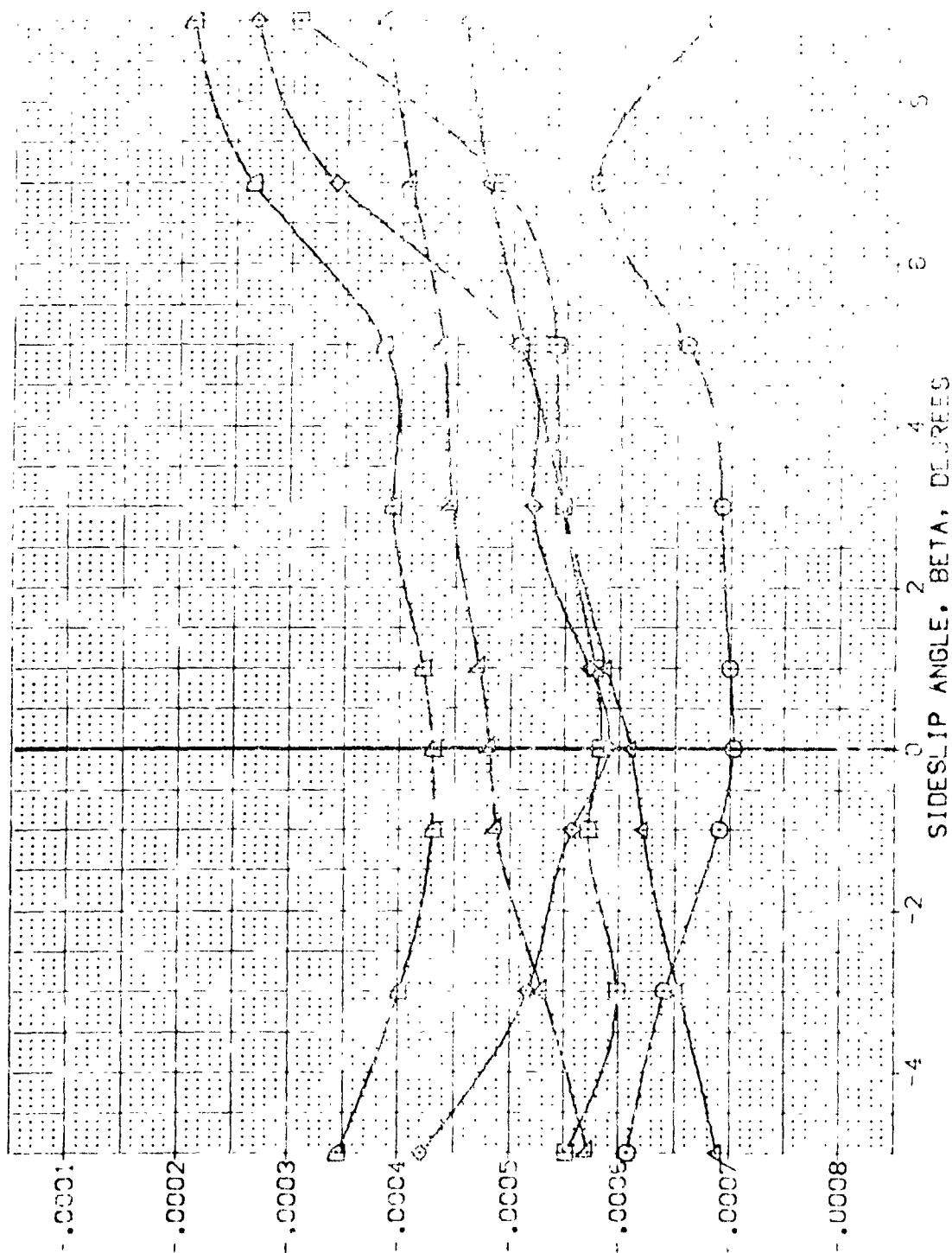


FIG. 23 RUDDER DERIVATIVES, SPEEDBRAKE 55 DEGREES

(B)MACH = 2.00

PAGE 06

DATA SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	DR	BOFLAP	SPOBRK	REFERENCE INFORMATION
1	170 47 0 45 1 B C M F V	0.000	-10.000	-11.700	55.000	SREF 2.4210 SQ.FT.
2	170 47 0 45 1 B C M F V	10.000	-10.000	-11.700	55.000	LREF 14.2440
3	170 47 0 45 1 B C M F V	20.000	-10.000	-11.700	55.000	BREF 28.1004
4	170 47 0 45 1 B C M F V	10.000	-25.000	-11.700	55.000	YREF 32.3010
5	170 47 0 45 1 B C M F V	20.000	-25.000	-11.700	55.000	ZREF 11.2500
6	170 47 0 45 1 B C M F V	10.000	-25.000	-11.700	55.000	SCALE .0300

ROLLING MOMENT DUE TO RUDDER, DCBLDR, PER DEGREE, (BODY AXIS)

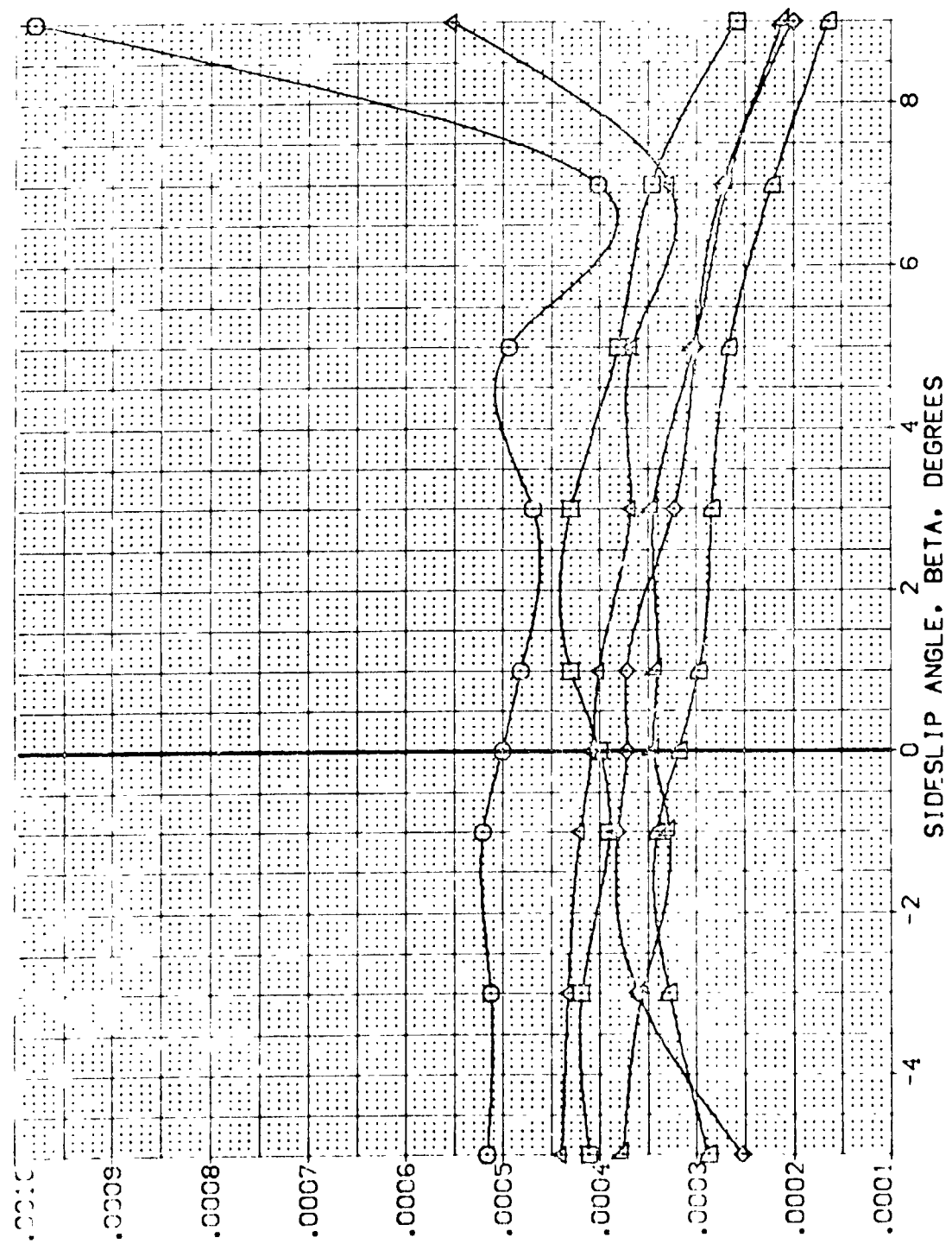


FIG. 23 RUDDER DERIVATIVES, SPEEDBRAKE 55 DEGREES

(M)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	DR	BOF LAP	SPDRM	REFERENCE INFORMATION
(VERC029)	ARC 97-747 C4S38 B C M F V I V	0.000	-10.000	-11.700	55.000	SREF 2.4710
(VERC030)	ARC 97-747 C4S38 B C M F V I V	10.000	-10.000	-11.700	55.000	LBREF 14.0240
(VERC031)	ARC 97-747 C4S38 B C M F V I V	20.000	-10.000	-11.700	55.000	BRF 28.1040
(VERC032)	ARC 97-747 C4S38 B C M F V I V	10.000	-25.000	-11.700	55.000	YMRP 32.3200
(VERC033)	ARC 97-747 C4S38 B C M F V I V	10.000	-25.000	-11.700	55.000	ZMRP 11.7500
(VERC034)	ARC 97-747 C4S38 B C M F V I V	20.000	-25.000	-11.700	55.000	SCALE 0.0000

ROLLING MOMENT DUE TO RUDDER, DCBLDR, PER DEGREE, (BODY AX'S)

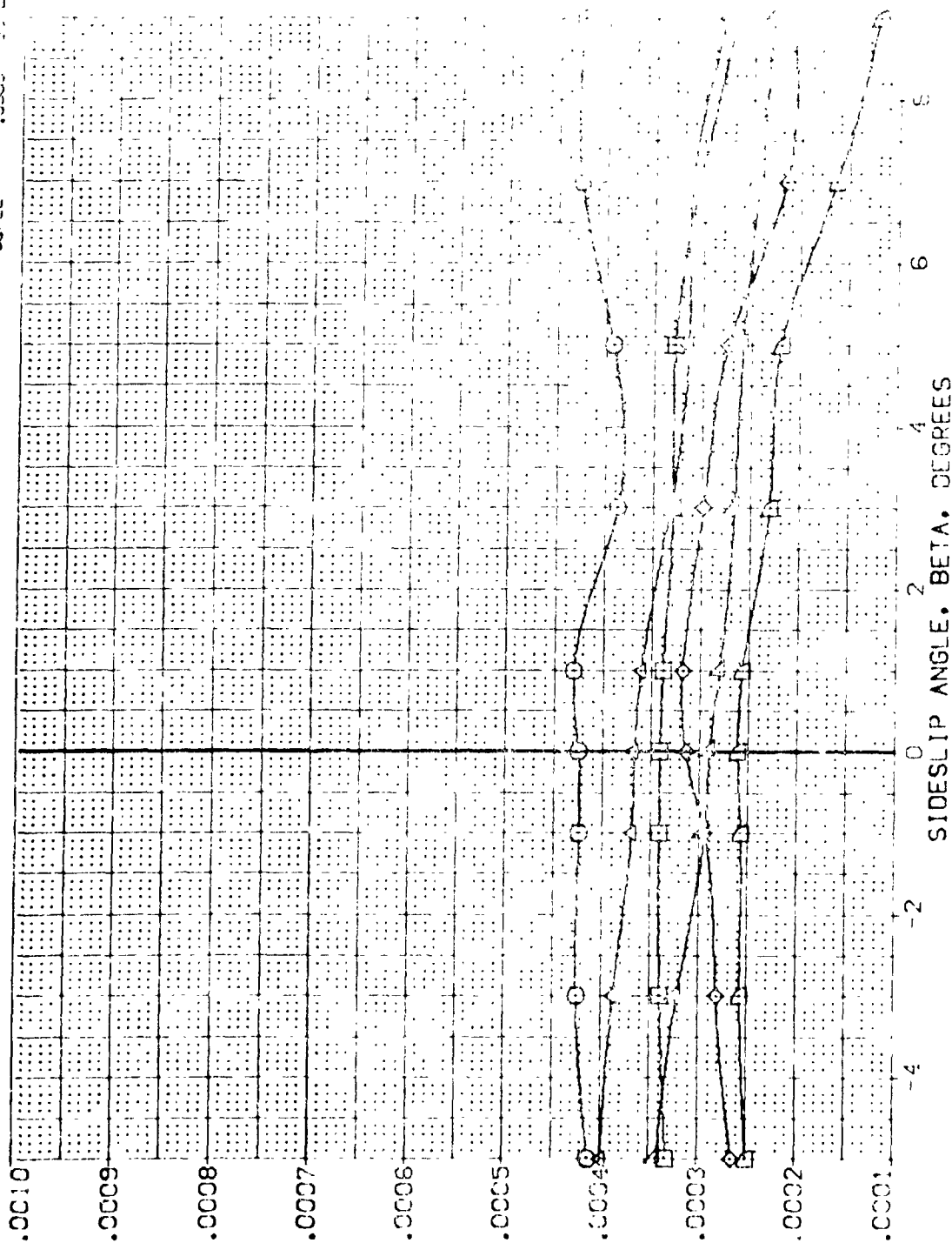


FIG. 23 RUDDER DERIVATIVES, SPEEDBRAKE 55 DEGREES

(B)MACH = 2.00

DATA SET	5	163	CONF	DESCRIPTION	NO.	RV/L	ALPHA	DR	BOF LAP	SPOORX	REFERENCE INFORMATION	SCALE
ARC 97-747	5	33	B	00000000	1	RV/L	0.000	-10.000	-11.700	55.000	SREF 2.4210	50. FT.
ARC 97-747	5	33	B	00000000	2	RV/L	10.000	-10.000	-11.700	55.000	LREF 14.2440	50. FT.
ARC 97-747	5	33	B	00000000	3	RV/L	20.000	-10.000	-11.700	55.000	BREF 28.1004	50. FT.
ARC 97-747	5	33	B	00000000	4	RV/L	10.000	-25.000	-11.700	55.000	XREF 32.3000	50. FT.
ARC 97-747	5	33	B	00000000	5	RV/L	20.000	-25.000	-11.700	55.000	YREF 11.2500	50. FT.
ARC 97-747	5	33	B	00000000	6	RV/L	20.000	-25.000	-11.700	55.000	ZREF 11.2500	50. FT.
ARC 97-747	5	33	B	00000000	7	RV/L	20.000	-25.000	-11.700	55.000	WREF 11.2500	50. FT.
ARC 97-747	5	33	B	00000000	8	RV/L	20.000	-25.000	-11.700	55.000	SCALE 11.2500	50. FT.

PITCHING MOMENT COEFF. DERIV. WRT RUDDER DEFL., DCLMR, PER DEG

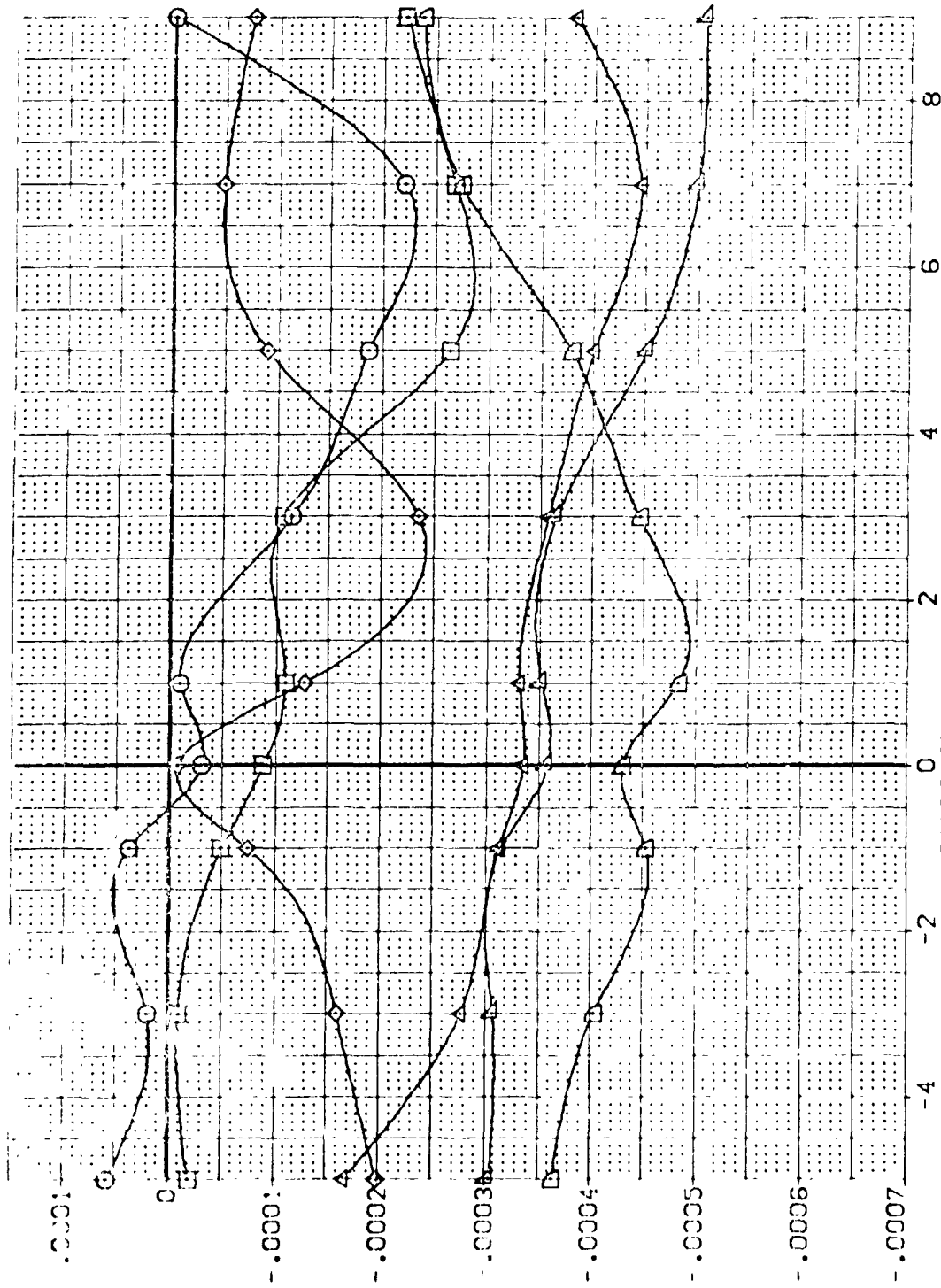


FIG. 23 RUDDER DERIVATIVES, SPEEDBRAKE 55 DEGREES

(M)MACH = 1.60

PITCHING MOMENT COEFF. DERIV. WRT RUDDER DEFL., DCLMR, FOR DEG

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	DR	BOE LAR	SPOBRK	REFERENCE INFORMATION
ARC 97-747	CA538 B C H F VI	10.000	-10.000	-11.700	55.000	SREF 2.4210
ARC 97-747	CA538 B C H F VI	10.000	-10.000	-11.700	55.000	SREF 14.7440
ARC 97-747	CA538 B C H F VI	20.000	-10.000	-11.700	55.000	SREF 28.5074
ARC 97-747	CA538 B C H F VI	10.000	-20.000	-11.700	55.000	SREF 32.9310
ARC 97-747	CA538 B C H F VI	10.000	-20.000	-11.700	55.000	SREF 11.0300
ARC 97-747	CA538 B C H F VI	20.000	-20.000	-11.700	55.000	SREF 11.0300

SCALE 50.000

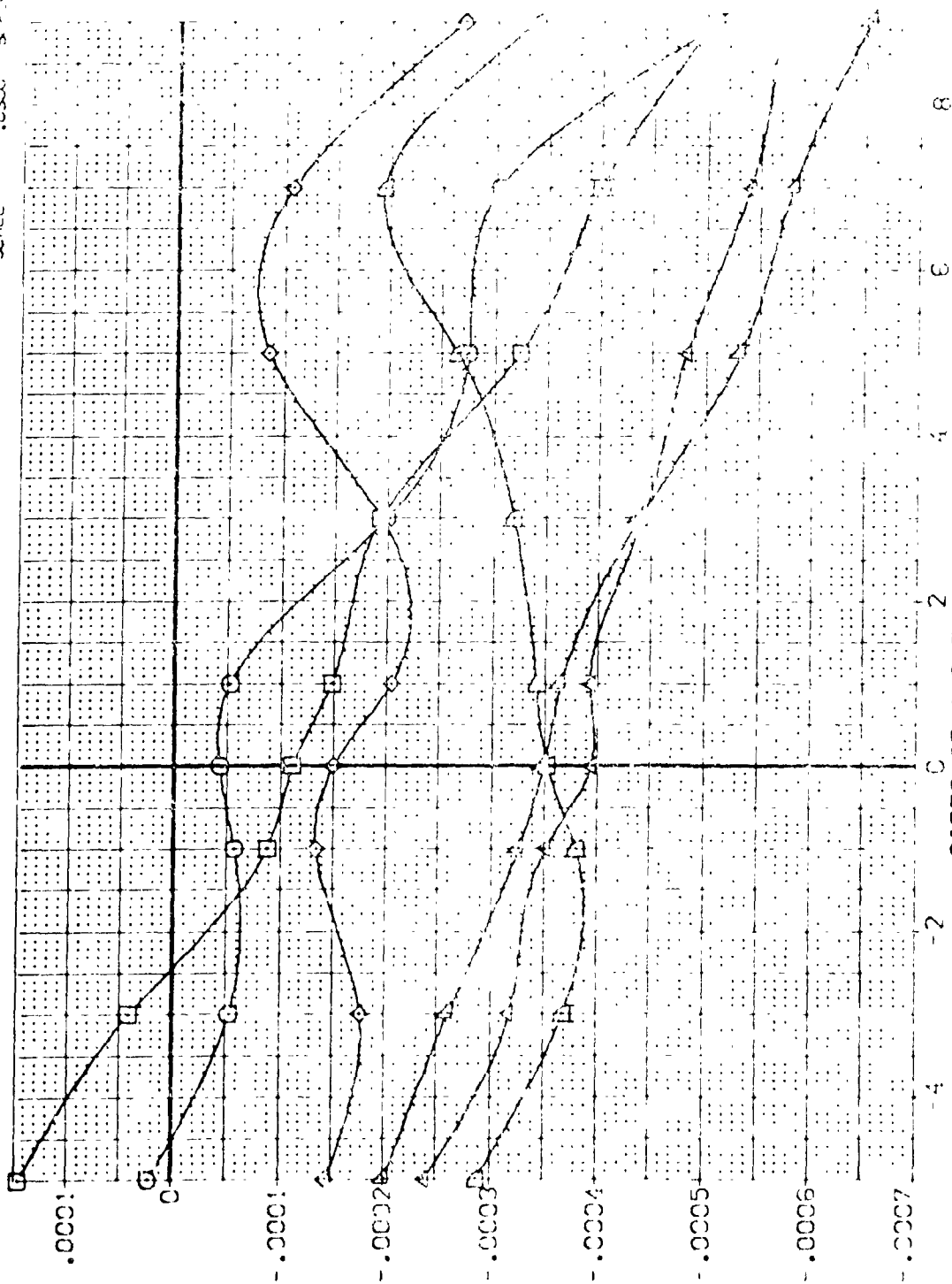


FIG. 23 RUDDER DERIVATIVES, SPEEDBRAKE 55 DEGREES

(3)MAC = 2.00

REFERENCE INFORMATION	
SREF	2.4210 SQ. FT.
LREF	14.2440
BREF	28.1004
XMRP	32.3010
YMRP	.0000
ZMRP	11.2500
SCALE	.0300

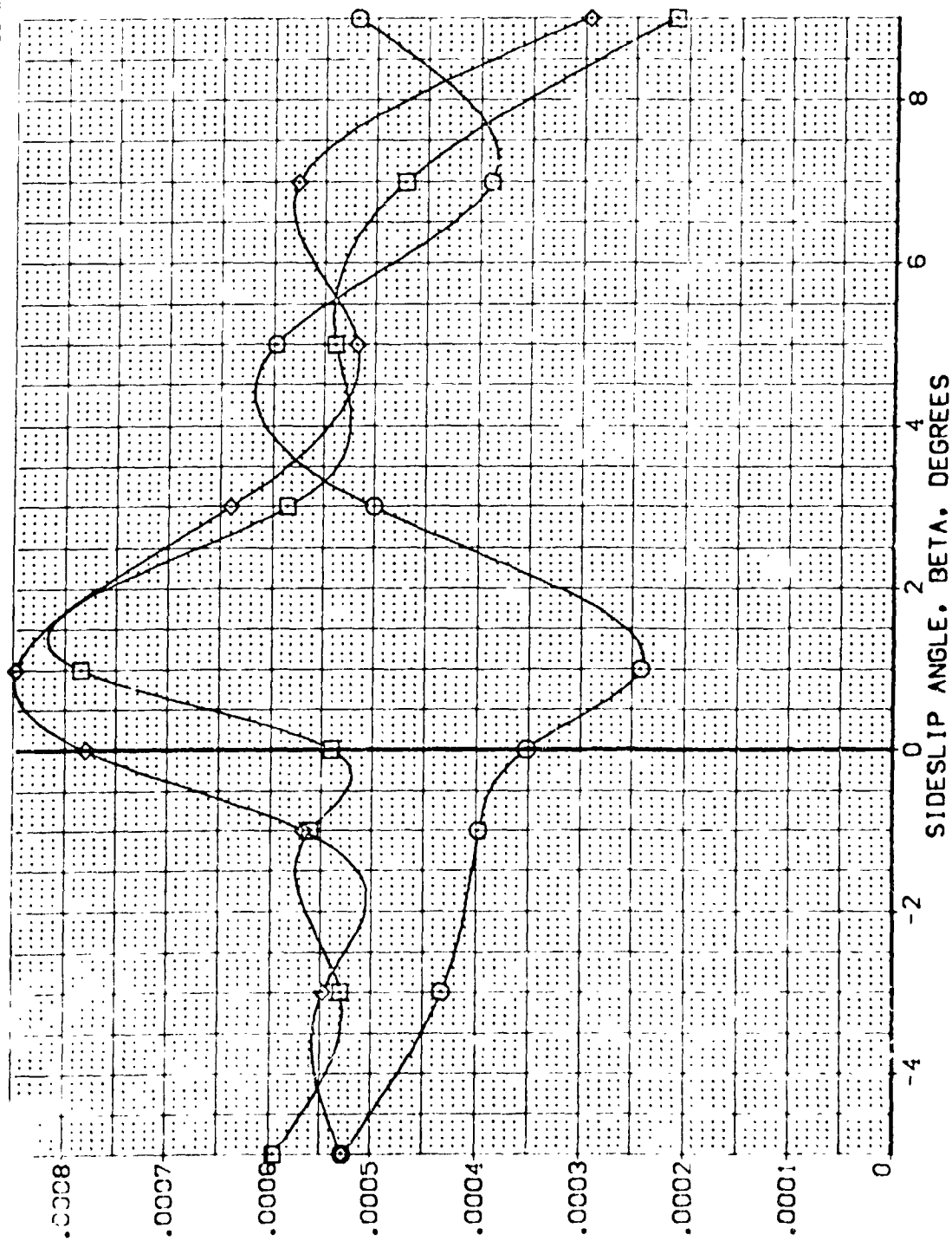


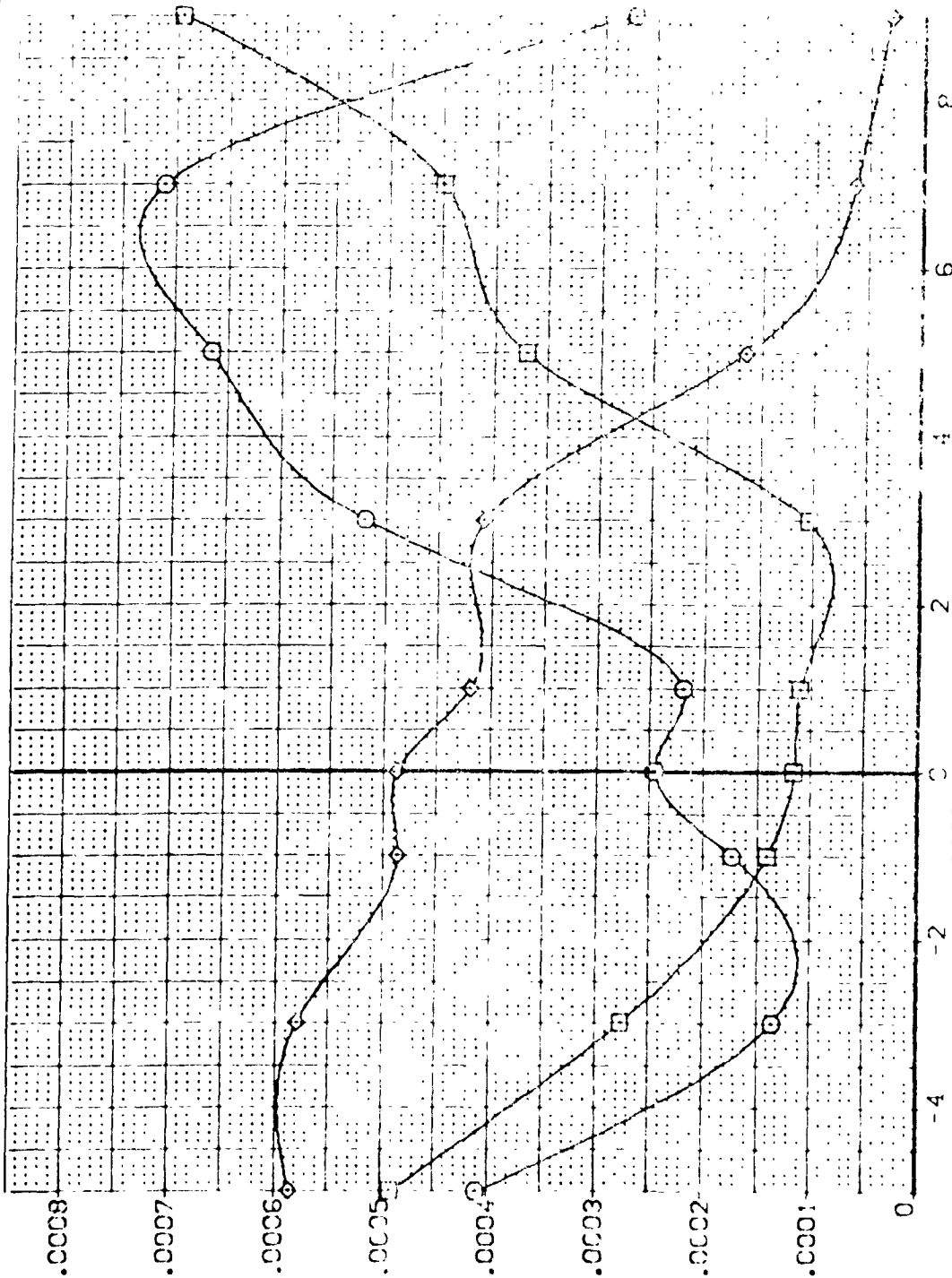
FIG. 24 RUDDER DERIVATIVES, SPEEDBRAKE 85 DEGREES

$$[A]_{\text{VACU}} = 1.60$$

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VERM045) APC 97-747 DA538 B C M F VI V
 (VERM047) ARC 97-747 DA538 B C M F VI V
 (VERM048) ARC 97-747 DA538 B C M F VI V

ALPHA DR BUFLAP SPOBRK
 0.000 -10.000 -11.700 85.000
 10.000 -10.000 -11.700 85.000
 20.000 -10.000 -11.700 85.000

REFERENCE INFORMATION
 SREF 2.4710 SG 1.0
 LREF 14.2440
 BREF 28.1004
 XMRD 32.3010
 YMRD 1.0000
 ZMRD 11.5000
 SCALE 1.300



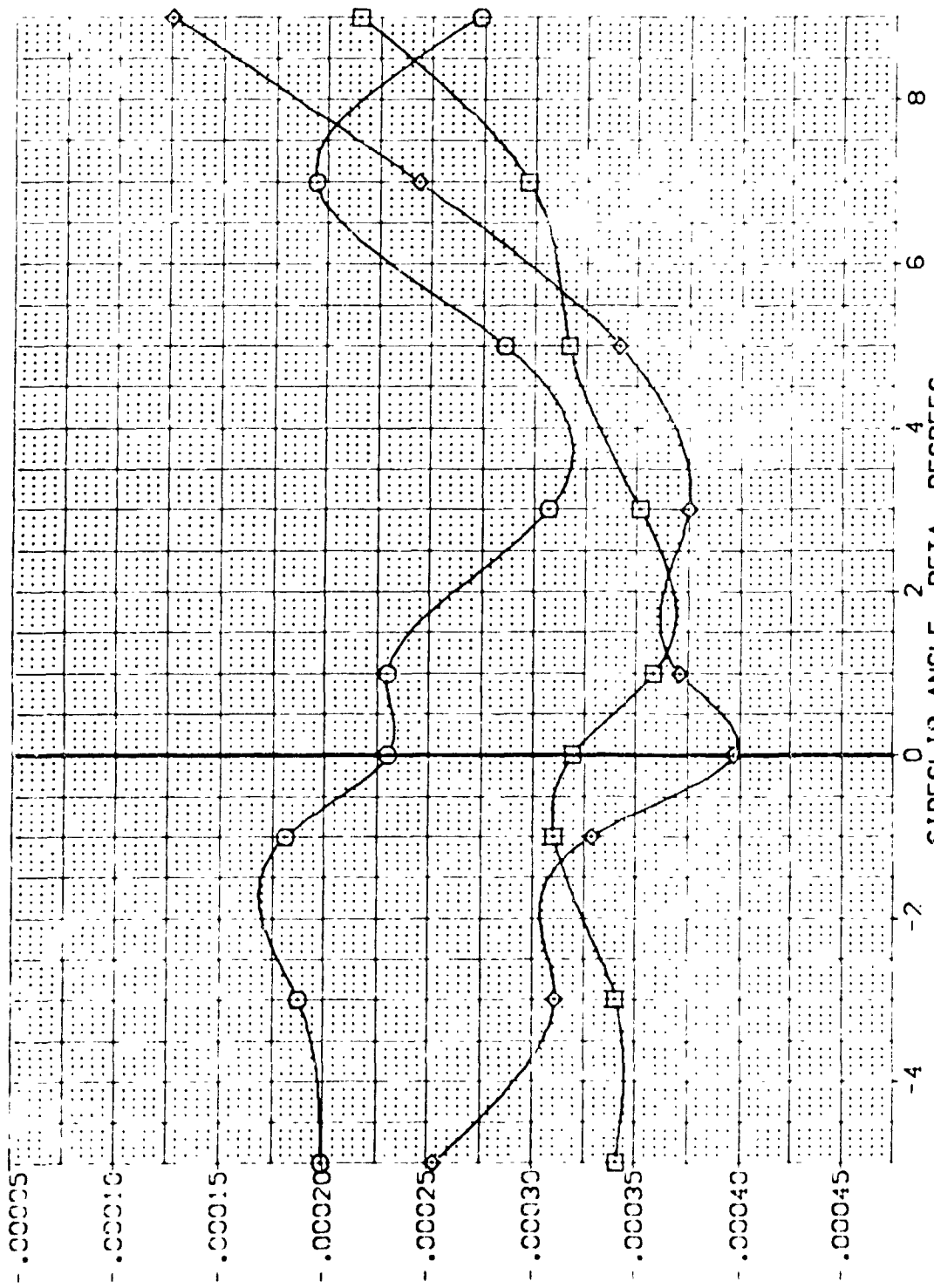
SIDE FORCE DUE TO RUDDER, DCY/DR, PER DEGREE

FIG. 24 RUDDER DERIVATIVES, SPEEDBRAKE 85 DEGREES

(B)MAC = 2.00

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ALPHA		OR		BOFLAP		SPDBRK		REFERENCE INFORMATION	
(REF 246)	C	ABC 57-747	04538 B C M F V	10.000	0.000	-10.000	-11.700	85.000	SREF	2.4210	SC 1.7		
(REF 247)	C	ABC 57-747	04538 B C M F V	10.000	0.000	-10.000	-11.700	85.000	REF	14.2440	SC 1.7		
(REF 248)	C	ABC 57-747	04538 B C M F V	20.000	-10.000	-10.000	-11.700	85.000	BOFL	28.1000	SC 1.7		
									XREF	32.3010	SC 1.7		
									YREF	.0000	SC 1.7		
									ZREF	11.7500	SC 1.7		
									SCALE	.0300	SCALE		

YAWING MOMENT DUE TO RUDDER, DCYNDR, PER DEGREE, (BODY AXIS)



SIDESLIP ANGLE, BETA, DEGREES

FIG. 24 RUDDER DERIVATIVES, SPEEDBRAKE 85 DEGREES

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VEK046) ARC 97-747 0A538 B C H F V V
 (VEK047) ARC 97-747 0A538 B C H F V V
 (VEK048) ARC 97-747 0A538 B C H F V V

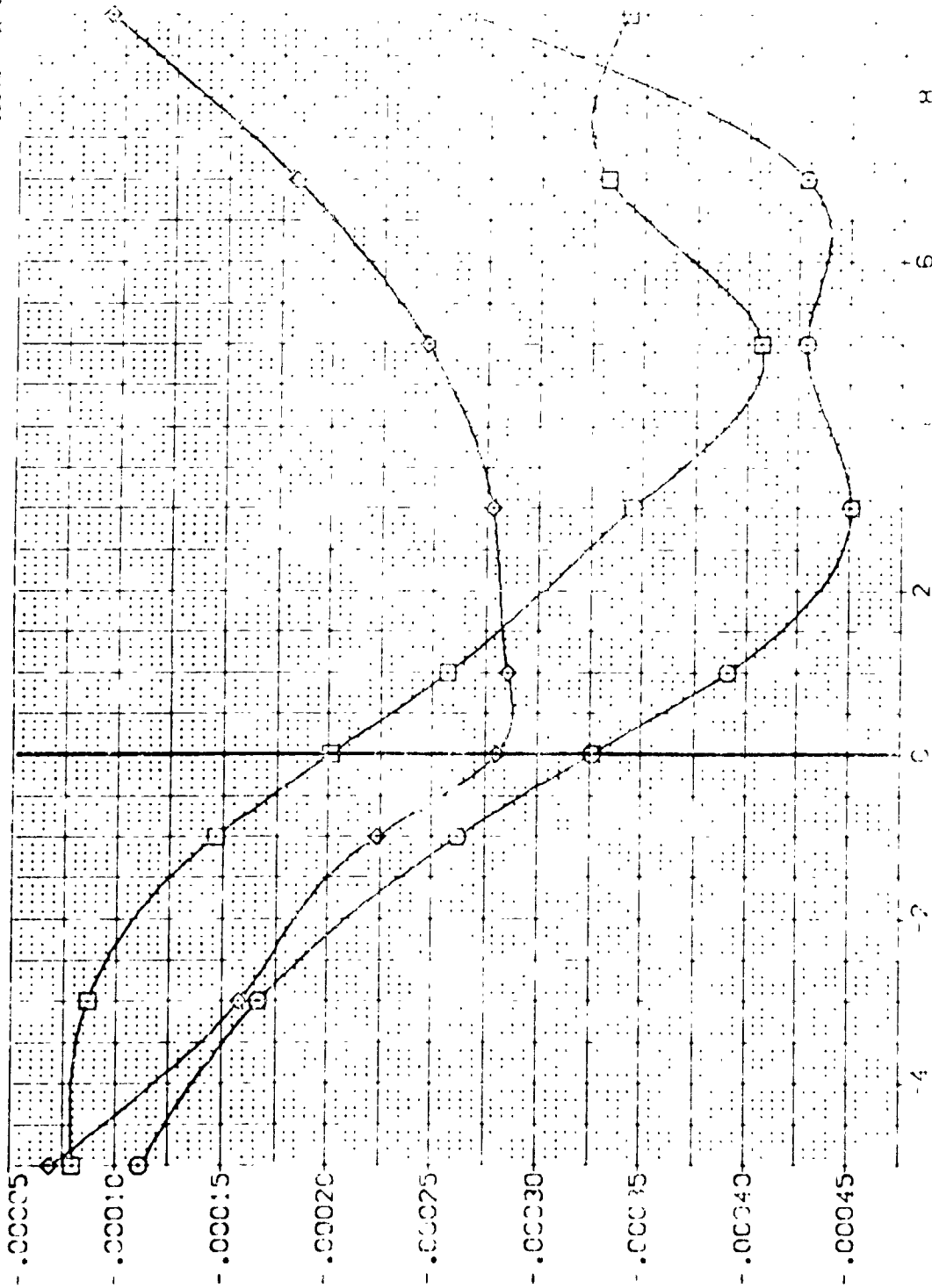
NOT: RV/L
 NOT: RV/L
 NOT: RV/L

ALPHA DR
 0.000 -10.000
 10.000 -10.000
 20.000 -10.000

BOFLAP SPEEDYK
 -11.700 85.000
 -11.700 85.000
 -11.700 85.000

REFERENCE INFORMATION
 SPREF 2.4210
 RPREF 11.2440
 BPREF 28.0000
 XMRP 32.0000
 YMRP 11.7500
 ZMRP 0.0000
 SCALE 1.0000

YAWING MOMENT DUE TO RUDDER, DCYNOR, PER DEGREE, (BODY AXIS)



SIDESLIP ANGLE, BETA, DEGREE

FIG. 24 RUDDER DERIVATIVES, SPEEDBRAKE 85 DEGREES

(B)MACH - 2.00

DATA SYMBOL DESCRIPTION
 (1) ABC 810747 04538 B C M F V Y NOM. RV/L
 (2) ABC 810747 04538 B C M F V Y NOM. RV/L
 (3) ABC 810747 04538 B C M F V Y NOM. RV/L

ALPHA	DR	BOFLAP	SPEEDBRK
.000	-10.000	-1.700	85.000
10.000	-10.000	-1.700	85.000
20.000	-10.000	-1.700	85.000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LREF 14.2140
 BREF 28.1004
 XREF 32.3010
 YREF 20.000
 ZREF 11.2000
 SCALE .0300

ROLLING MOMENT DUE TO RUDDER, DCBLDR, PER DEGREE, (BODY AXIS)

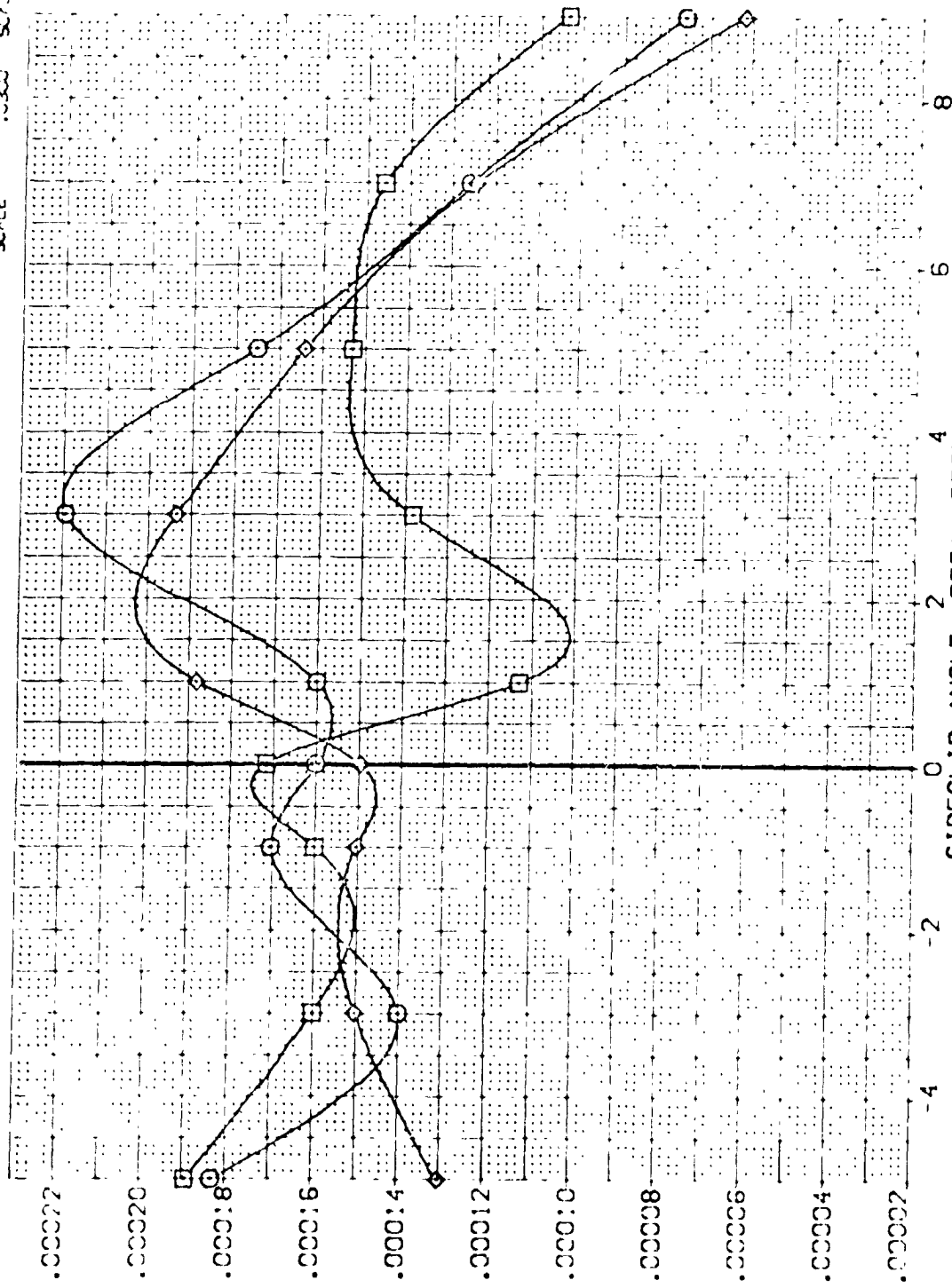


FIG. 24 RUDDER DERIVATIVES, SPEEDBRAKE 85 DEGREES

CAS MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VEM046) □ ARC 97-747 04538 B C M F VI V NOM: RM/L
 (VEM047) ◇ ARC 97-747 04538 B C M F VI V NOM: RM/L
 (VEM048) □ ARC 97-747 04538 B C M F VI V NOM: RM/L

ALPHA DR BOFLAP SPEEDBRK
 .000 -10.000 -11.700 85.000
 10.000 -10.000 -11.700 85.000
 20.000 -10.000 -11.700 85.000

REFERENCE INFORMATION
 SREF 2.4210 SC
 DR 14.2640
 BR 28.1004
 XREF 32.3100
 YREF 11.1000
 ZREF 11.1000
 SCALE 10330

ROLLING MOMENT DUE TO RUDDER, DCBLDR, PER DEGREE, (BODY AXIS)

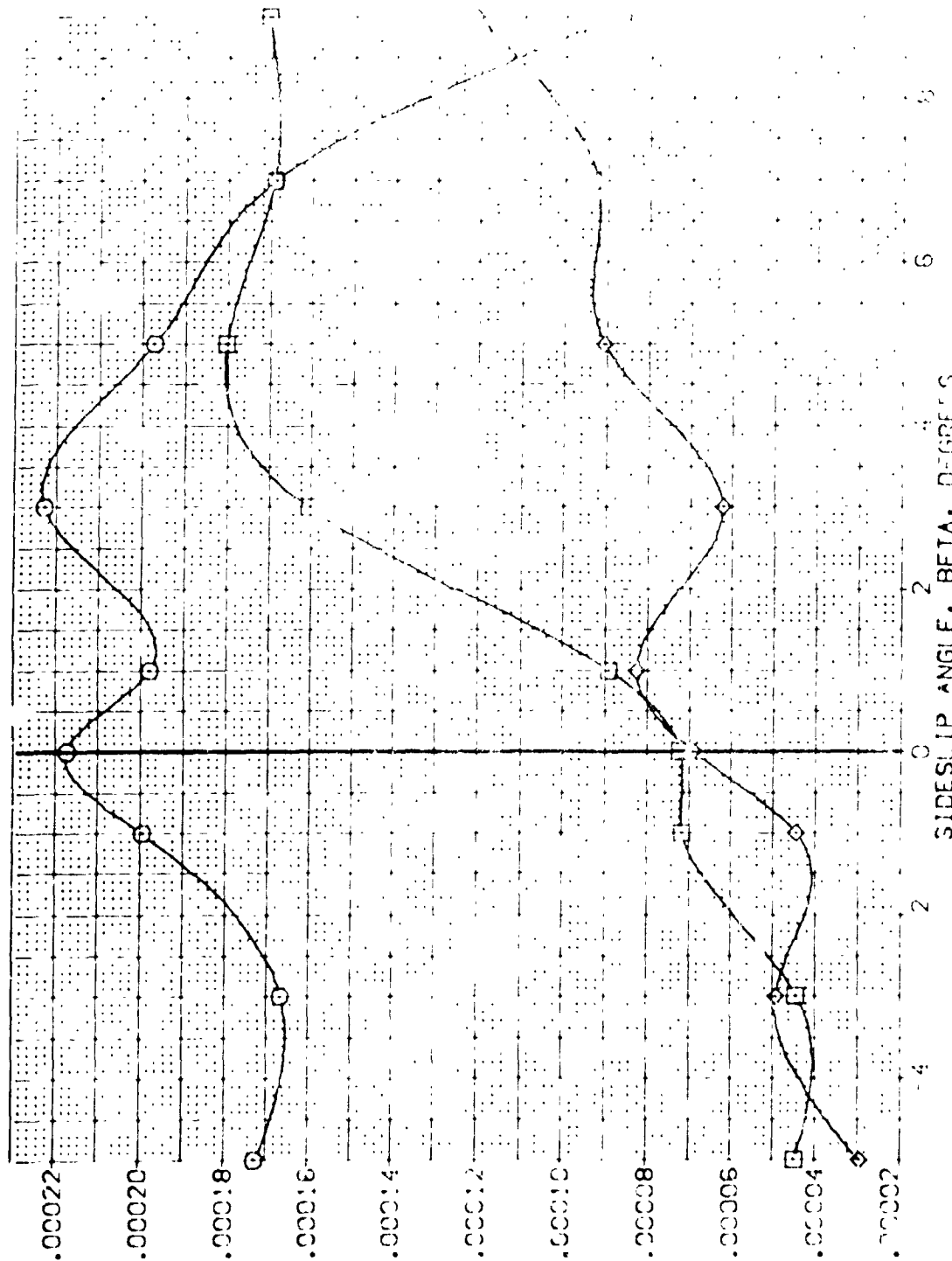


FIG. 24 RUDDER DERIVATIVES, SPEEDBRAKE 85 DEGREE

(B)MAC = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	DR	BDLAP	SPDBRK	REFERENCE INFORMATION
(VEK046)	ARC 97-747 0A538 B C M F V I V	0.000	-10.000	-11.700	85.000	SREF 2.4210 SQ.F.
(VEK047)	ARC 97-747 0A533 B C M F V I V	10.000	-10.000	-11.700	85.000	LREF 14.24 2
(VEK048)	ARC 97-747 0A538 B C M F V I V	20.000	-10.000	-11.700	85.000	BRF 28.10 4
						XMPP 37.30 10
						YMPP .0000
						ZMPP 11.2500
						SCALE .0300

PITCHING MOMENT COEFF. DERIV. WRT RUDDER DEFL., DCLMDR, PER DEG

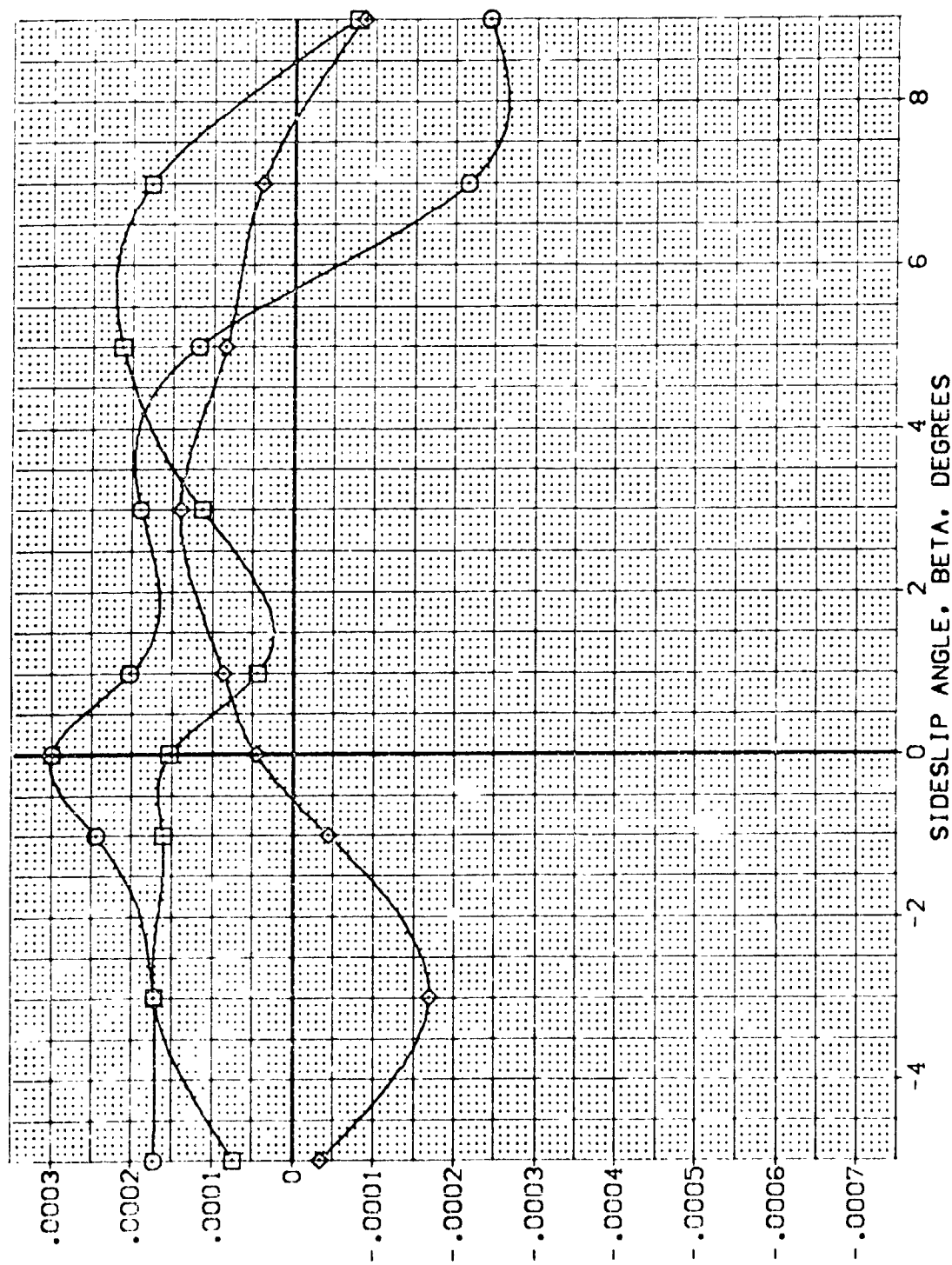


FIG. 24 RUDDER DERIVATIVES, SPEEDBRAKE 85 DEGREES

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	DR	BOFLAP	SPOBRK	REFERENCE INFORMATION
(VEK046)	ARC 97-747 DA538 B C M F V	0.000	-10.000	-11.700	85.000	SRLF 2.4210
(VEK047)	ARC 97-747 DA538 B C M F V	10.000	-10.000	-11.700	85.000	LREF 14.2445
(VEK048)	ARC 97-747 DA538 B C M F V	20.000	-10.000	-11.700	85.000	BREF 28.1004
						XMRP 32.3010
						YMRP 11.2500
						ZMRP 11.0300
						SCALE

PITCHING MOMENT COEFF. DERIV. WRT RUDDER DEFL., DCLMR, PER DEG

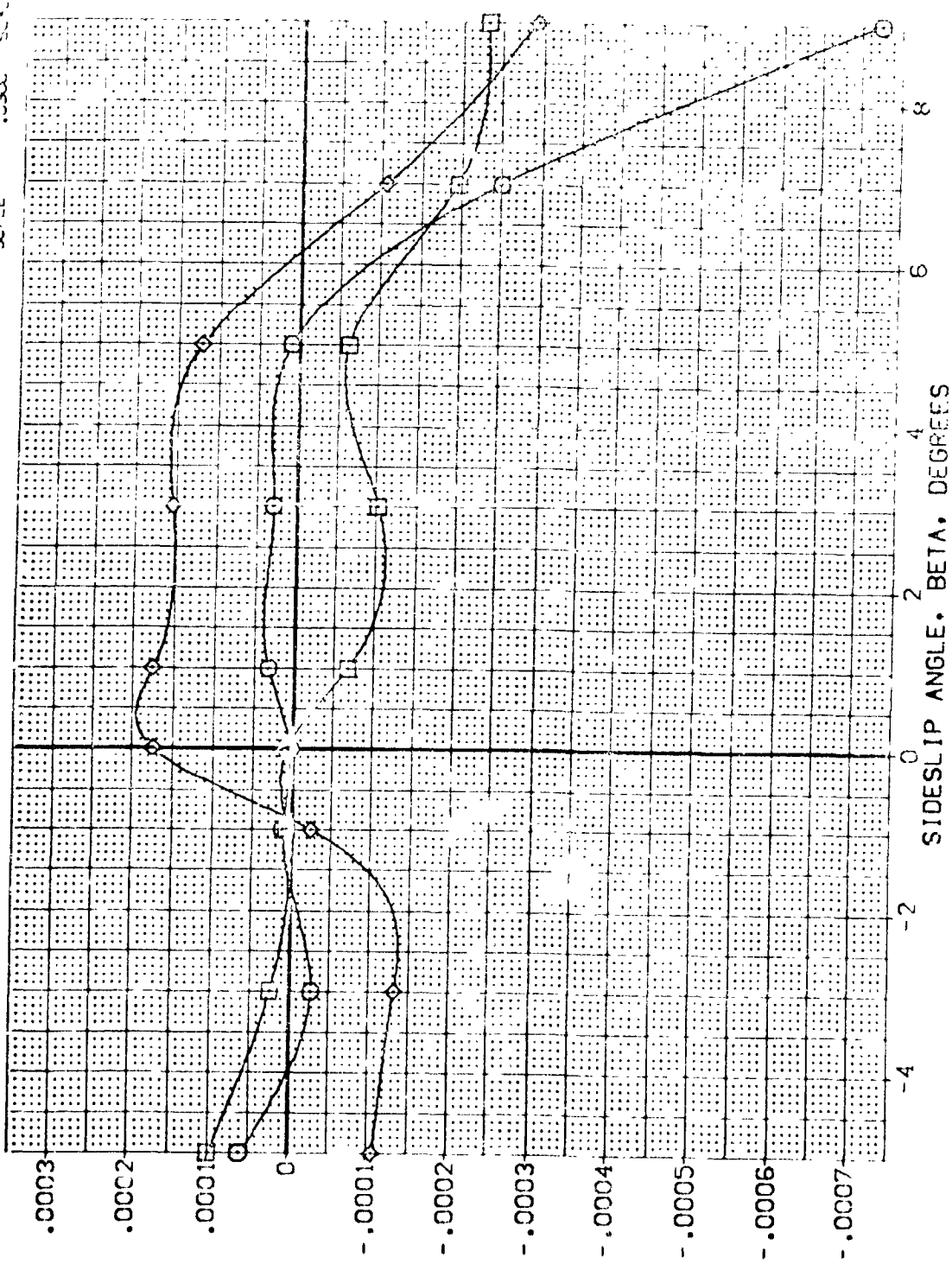


FIG. 24 RUDDER DERIVATIVES, SPEEDBRAKE 85 DEGREES

(B) VACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
(AEP07)	ARC 97-747 CAS38 B C M F V	.000	.000	-11.700	25.000	SREF 2.4210 SQ.FT.
(AEP08)	ARC 97-747 CAS38 B C M F V	.000	.000	-11.700	55.000	LREF 14.2440 IN.
(AEP09)	ARC 97-747 CAS38 B C M F V	.000	.000	-11.700	85.000	BREF 28.0004 IN.
						YMRP 37.3010 IN.
						YMRP .0000 IN.
						ZMRP 11.2500 IN.
						SCALE .0300

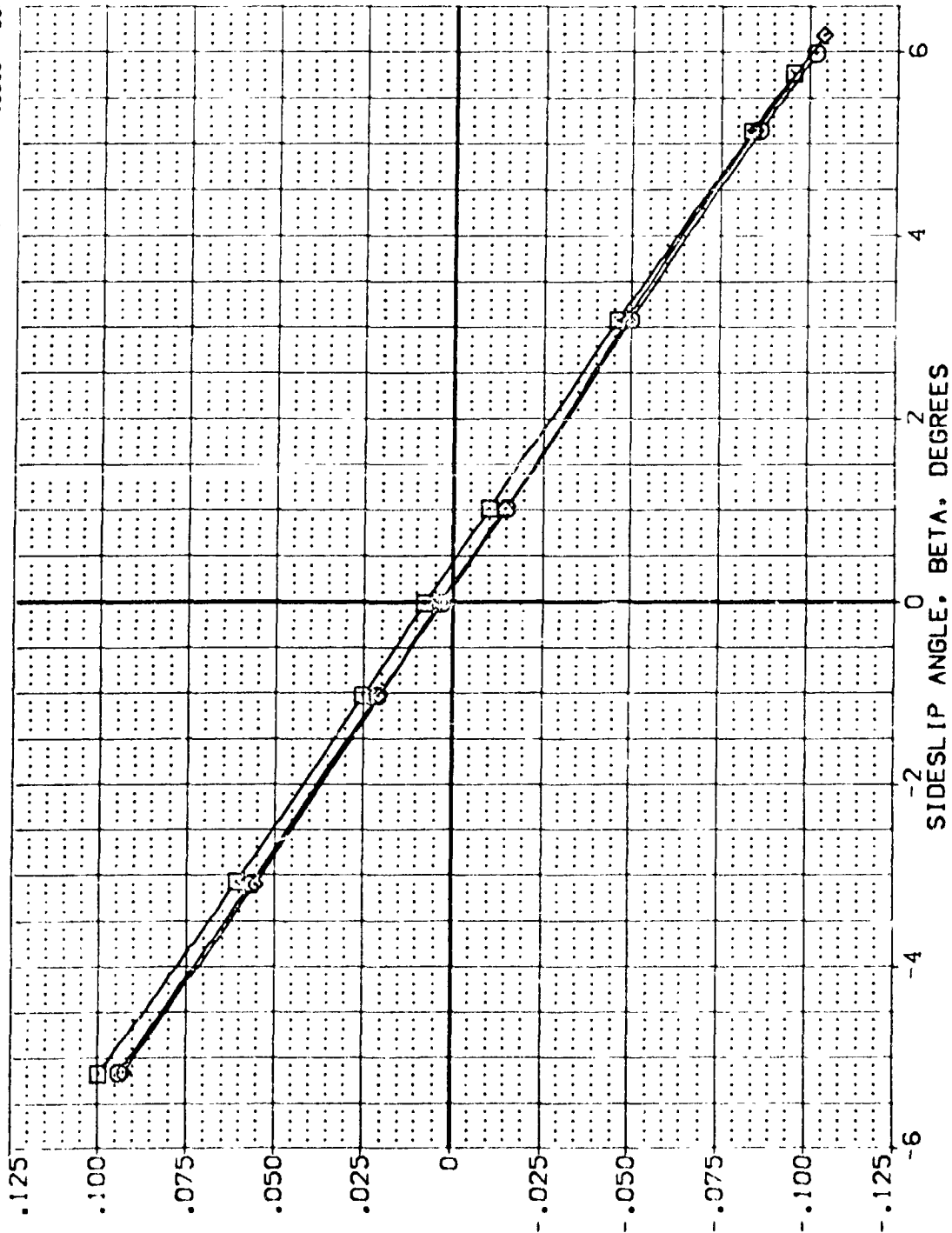


FIG. 25 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BDFLAP	SPOBRK	REFERENCE INFORMATION
[AEK075]	ARC 97-747 DAS38 B C H F VI V	.000	.000	-11.700	75.000	SREF 2.4210 SQ.FT.
[AEK076]	ARC 97-747 DAS38 B C H F VI V	.000	.000	-11.700	55.000	LREF 14.2440
[AEK039]	ARC 97-747 DAS38 B C H F VI V	.000	.000	-11.700	85.000	BREF 28.1004
						XMPP 32.3015
						YMPP .0000
						ZMPP 11.7500
						SCALE .0300

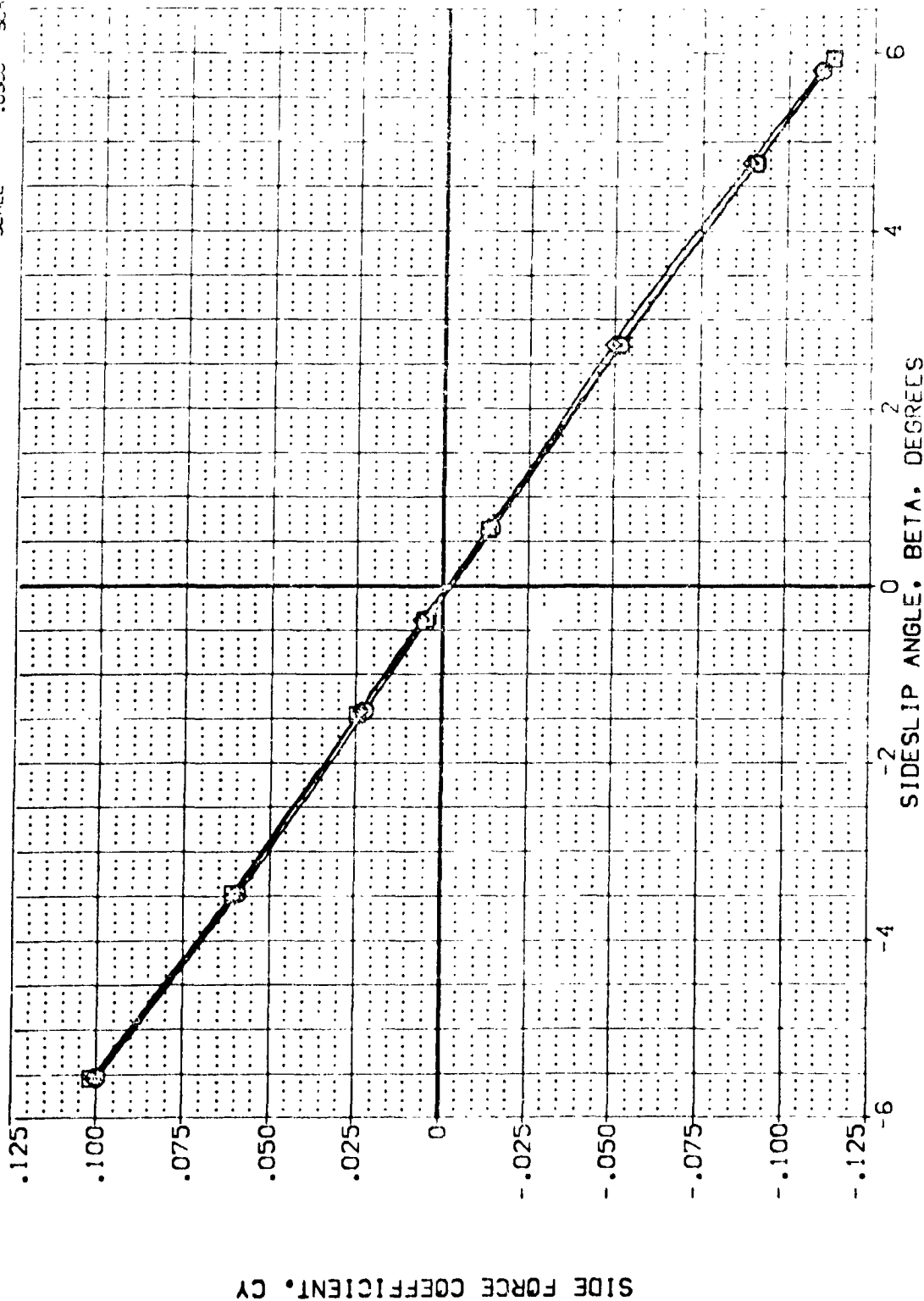
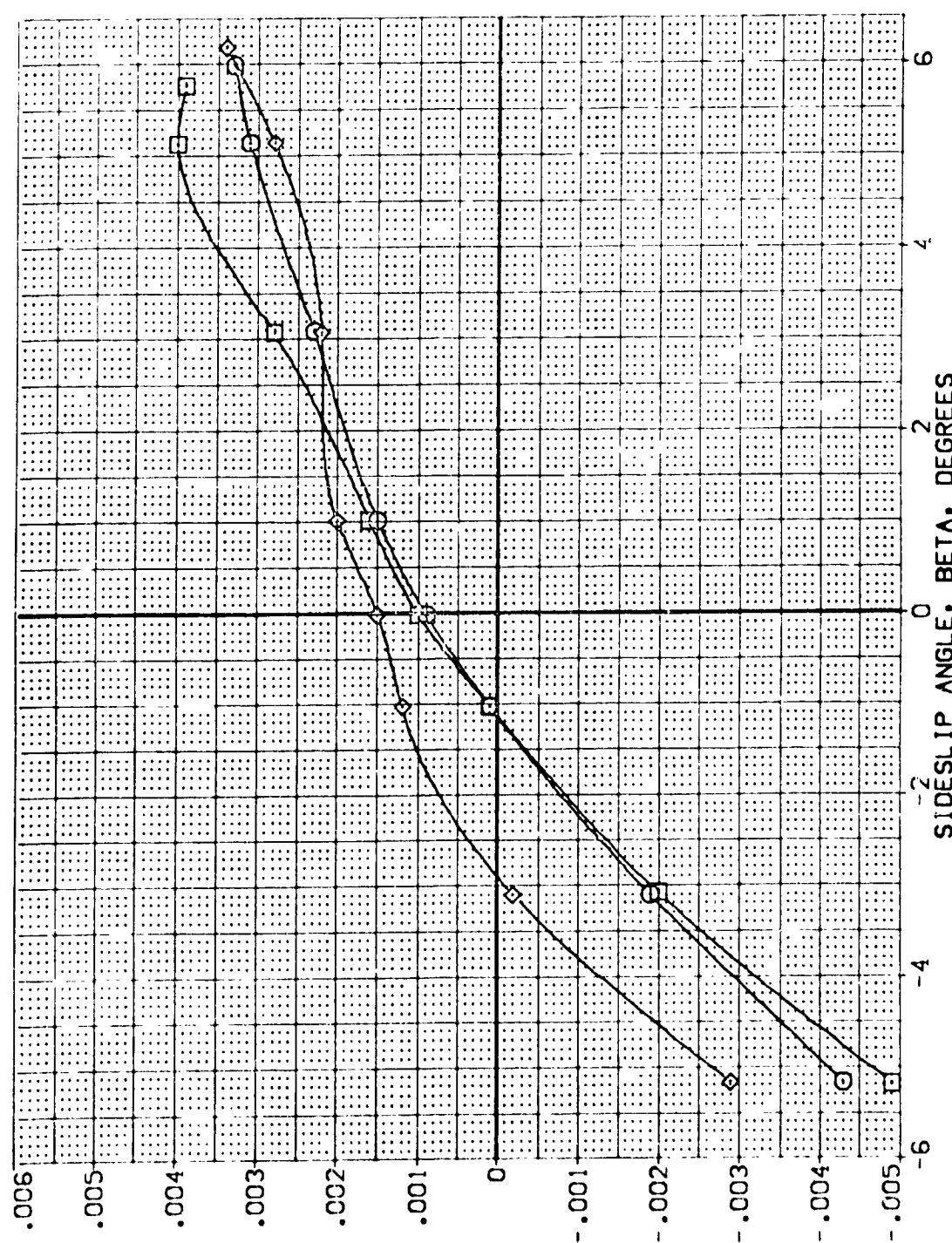


FIG. 25 SPEEDBRAKE EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BD FLAP	SPOILER	REFERENCE INFORMATION
[AEC025]	ARC 97-747 OAS38 B C M F V	.000	.000	-11.700	25.000	SREF 2.4210
[AEC012]	ARC 97-47 OAS38 B C M F V	.000	.000	-11.700	55.000	LREF 14.2440
[AEC039]	ARC 97-747 OAS38 B C M F V	.000	.000	-11.750	85.000	BREF 28.1004
						XMRP 32.3010
						YMRP 11.0000
						ZMRP 11.2000
						SCALE .0300



YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

FIG. 25 SPEEDBRAKE EFFECTS

(M)MACH = 1.60

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ALPHA		RUDDER		BDF LAD		SPOBRK		REFERENCE INFORMATION	
[AEK005]	Q	ARC 97-747	BA538 B C M F V1 V	.000	.000	.000	.000	-11.700	29.000	SREF	2.4210	SQ.FT.	
[AEK012]	Q	ARC 97-747	DA538 B C M F V1 V	.000	.000	.000	.000	-11.700	55.000	LREF	14.2440		
[AEK038]	Q	ARC 97-747	DA538 B C M F V1 V	.000	.000	.000	.000	-11.700	85.000	BREF	28.1000		
										XMRP	32.3000		
										YMRP	.0000		
										ZMRP	11.2000		
										SCALE	.0000		

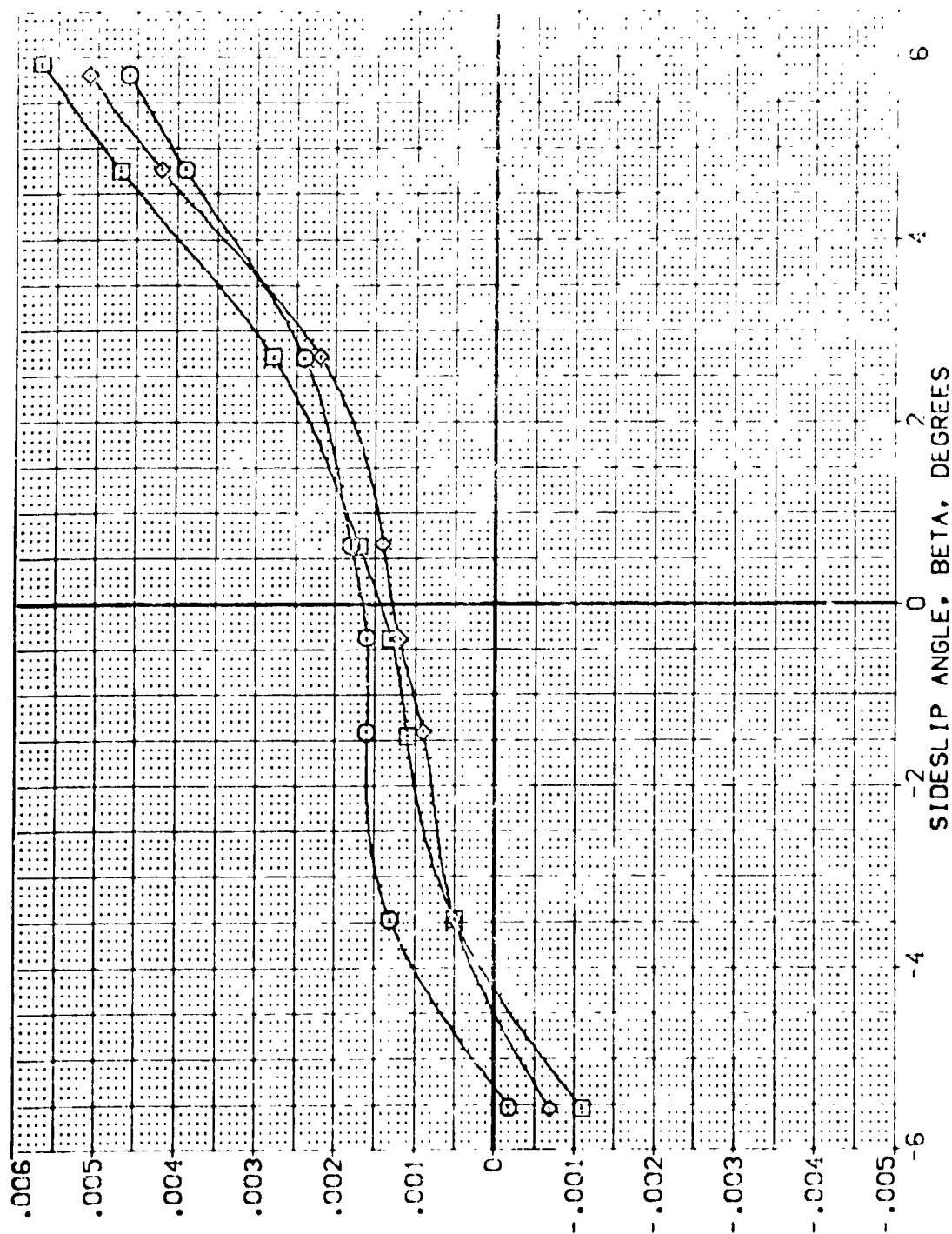


FIG. 25 SPEEDBRAKE EFFECTS

(B) MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPEEDBRAKES	REFERENCE INFORMATION
ARC 97-747	BASE 38 B C M F V	V	.000	.000	-11.700	25.000	SREF 2.4210
ARC 97-747	BASE 38 B C M F V	V	.000	.000	-11.700	55.000	LREF 14.2440
ARC 97-747	BASE 38 B C M F V	V	.000	.000	-11.700	85.000	BREF 28.1004
ARC 97-747	BASE 38 B C M F V	V	.000	.000	-11.700	11.2507	YMRP 32.3010
ARC 97-747	BASE 38 B C M F V	V	.000	.000	-11.700	11.2507	ZMRP .0300
ARC 97-747	BASE 38 B C M F V	V	.000	.000	-11.700	11.2507	SCALE .0300

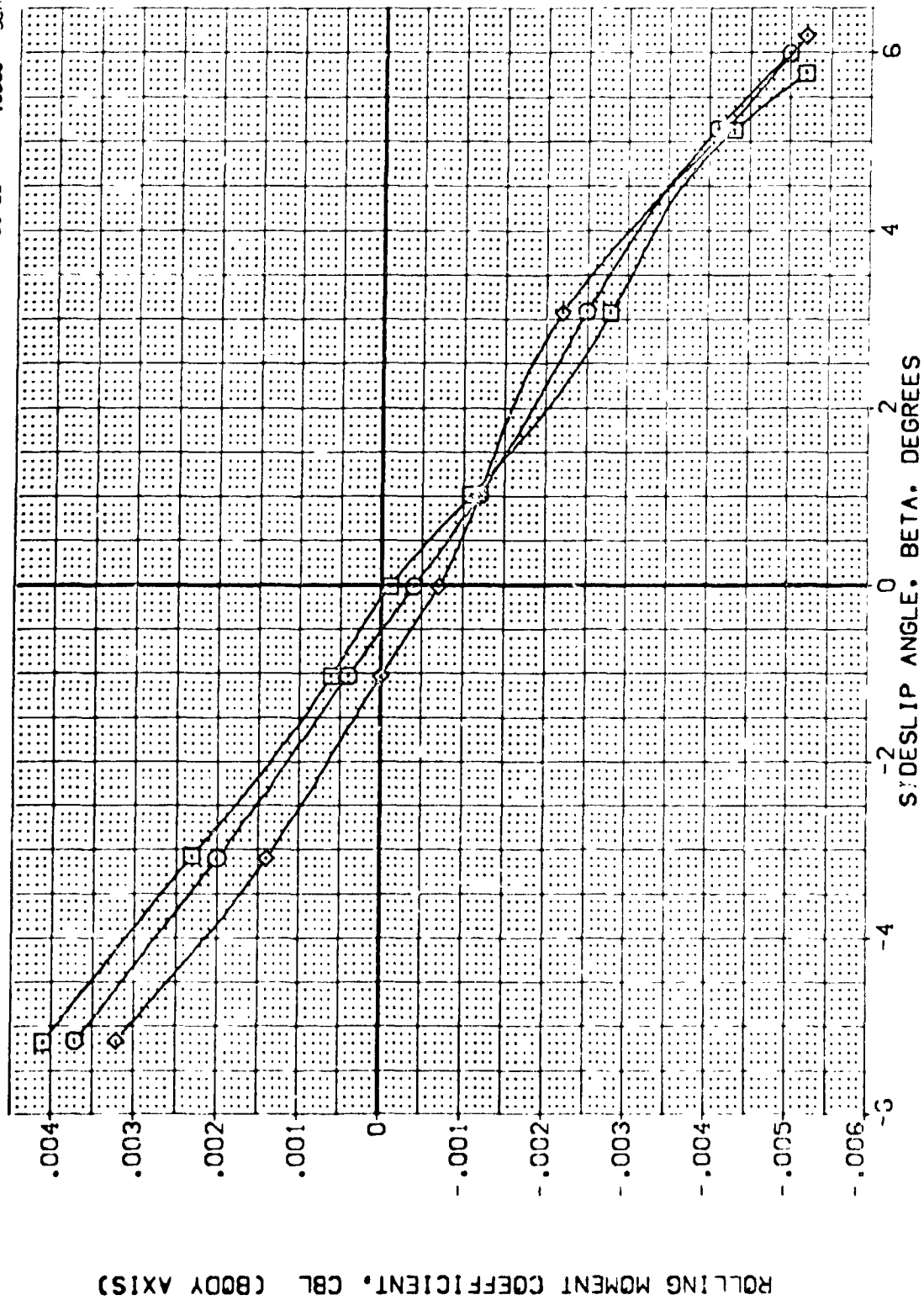


FIG. 25 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOE LAP	SPOBRK	REFERENCE INFORMATION
[AERO275]	ARC 97-747 OAS38 B C M F V	.000	.000	-.700	25.000	SREF 2.4210 SC.FT.
[AERO12]	ARC 97-747 OAS38 B C M F V	.000	.000	-.700	55.000	LREF 14.2440
[AEP039]	ARC 97-747 OAS38 B C M F V	.000	.000	-.700	85.000	BREF 28.1004
						XMRP 32.3010
						YMRP .0000
						ZMRP 11.2500
						SCALE 1.0000

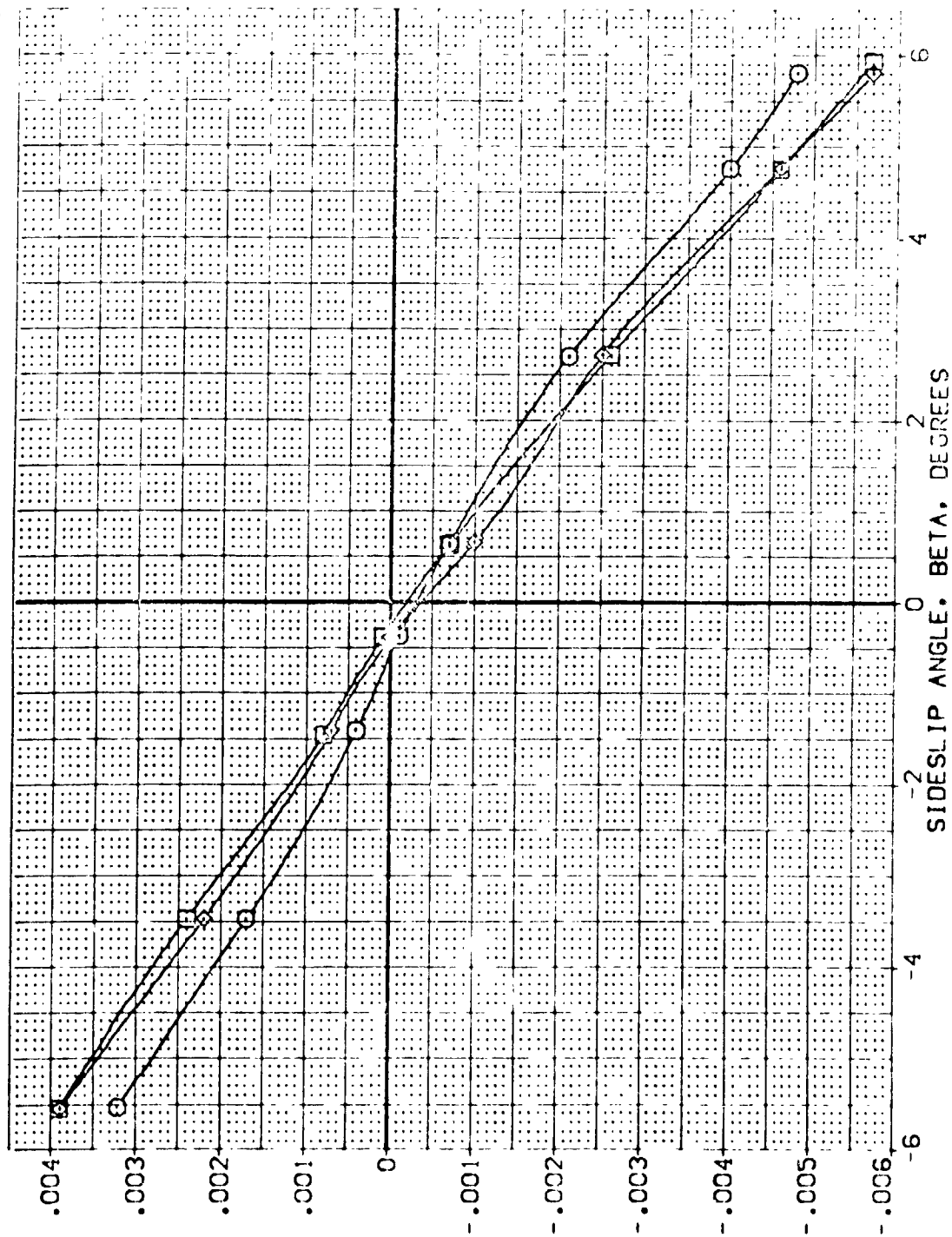


FIG. 25 SPEEDBRAKE EFFECTS

(B) VACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[AEP076]	ARC 97-747	0AS38	B	C	M	F	V	V	NOT	RV/L
[AEP073]	ARC 97-747	0AS38	B	C	M	F	V	V	NOT	RV/L
[AEP040]	ARC 97-747	0AS38	B	C	M	F	V	V	NOT	RV/L

ALPHA
10.000
10.000
10.000

RUDDER
.000
.000
.000

BOFLAP
-11.700
-11.700
-11.700

SPOBRK
25.000
55.000
85.000

REFERENCE INFORMATION

SREF	2.4210	50. FT.
LRFF	14.2440	N.
BRFF	28.1004	N.
XRPP	32.3010	N.
YMRP	.0000	N.
ZMRP	11.2500	N.
SCALE	.0300	SCALE

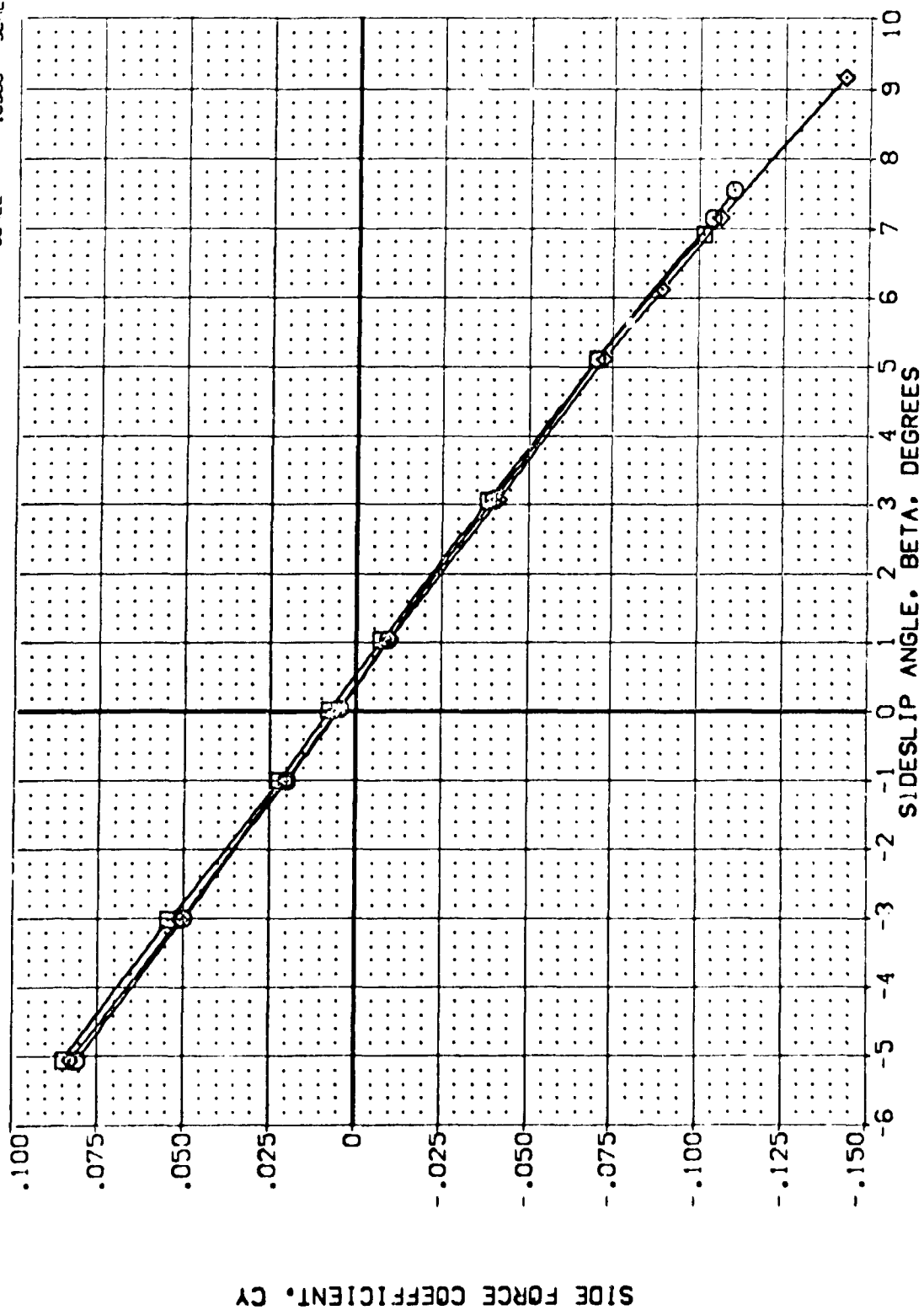


FIG. 25 SPEEDBRAKE EFFECTS

(A) $MACH = 1.60$

DATA SET SYMBOL

[AER076]

[AER073]

[AER040]

CONFIGURATION DESCRIPTION

ARC 97-747 DAS38 B C M F V I V

ARC 97-747 DAS38 B C M F V I V

ARC 97-747 DAS38 B C M F V I V

ALPHA

10.000

10.000

10.000

RUDDER

.000

.000

.000

BOT LAP

-11.700

-11.700

-11.700

SPOBRK

25.000

55.000

85.000

REFERENCE INFORMATION

SREF 2.4210

REF 14.2440

BREF 28.1004

XMRP 32.3010

YMRP .0000

ZMRP .0000

SCALE 11.2500

SCALE .0300

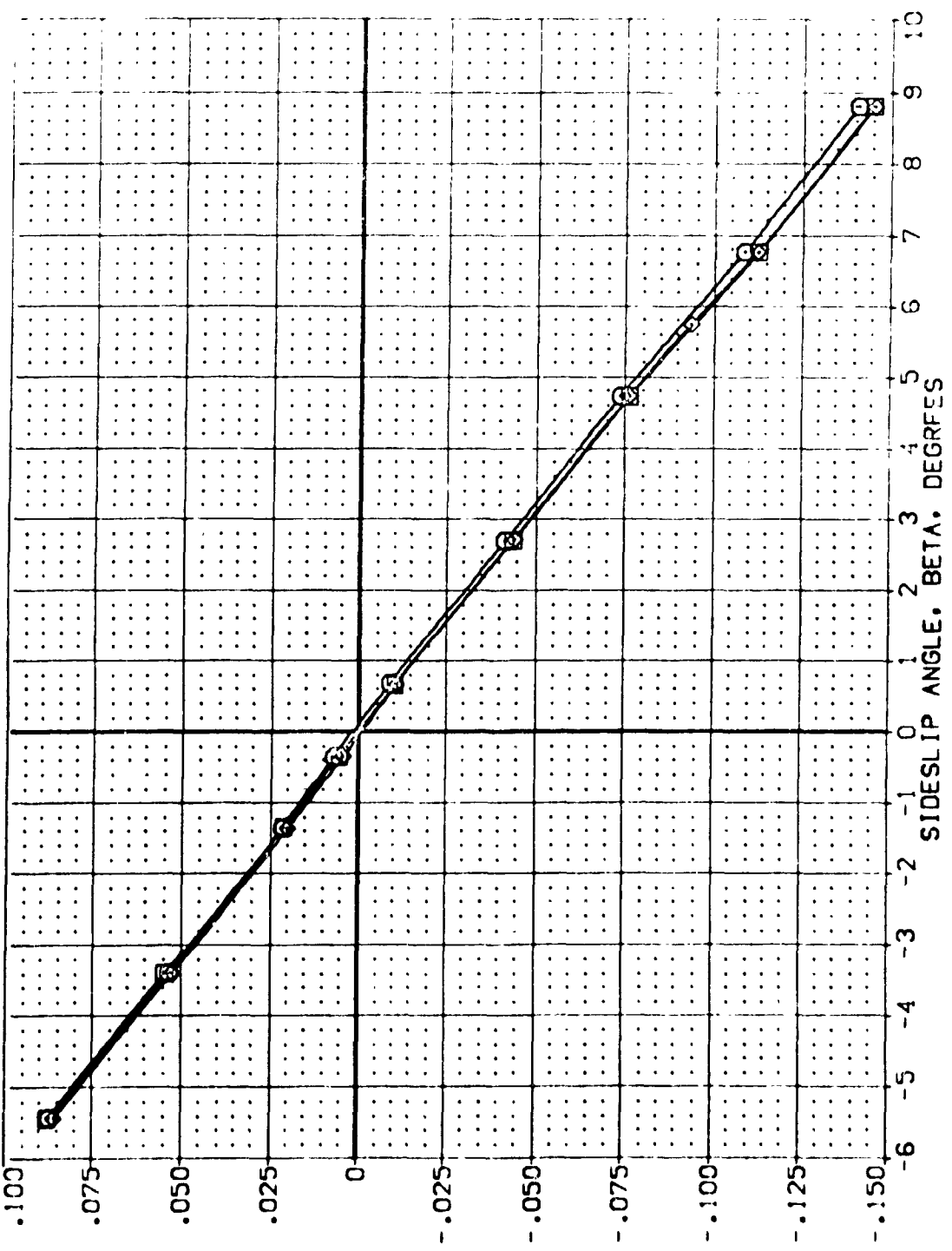


FIG. 25 SPEEDBRAKE EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
[ALP026]	ARC 97-747 C4S38 B C M F V1	10.000	.000	-11.700	25.000	SREF 2.4210
[ALP013]	ARC 97-747 C4S38 B C M F V1	10.000	.000	-11.700	55.000	LREF 14.2440
[ALP040]	ARC 97-747 C4S38 B C M F V1	10.000	.000	-11.700	65.000	BREF 28.1004
						XMRP 32.3010
						YMRP .0000
						ZMRP .0000
						SCALE 11.2500
						SCALE .0300

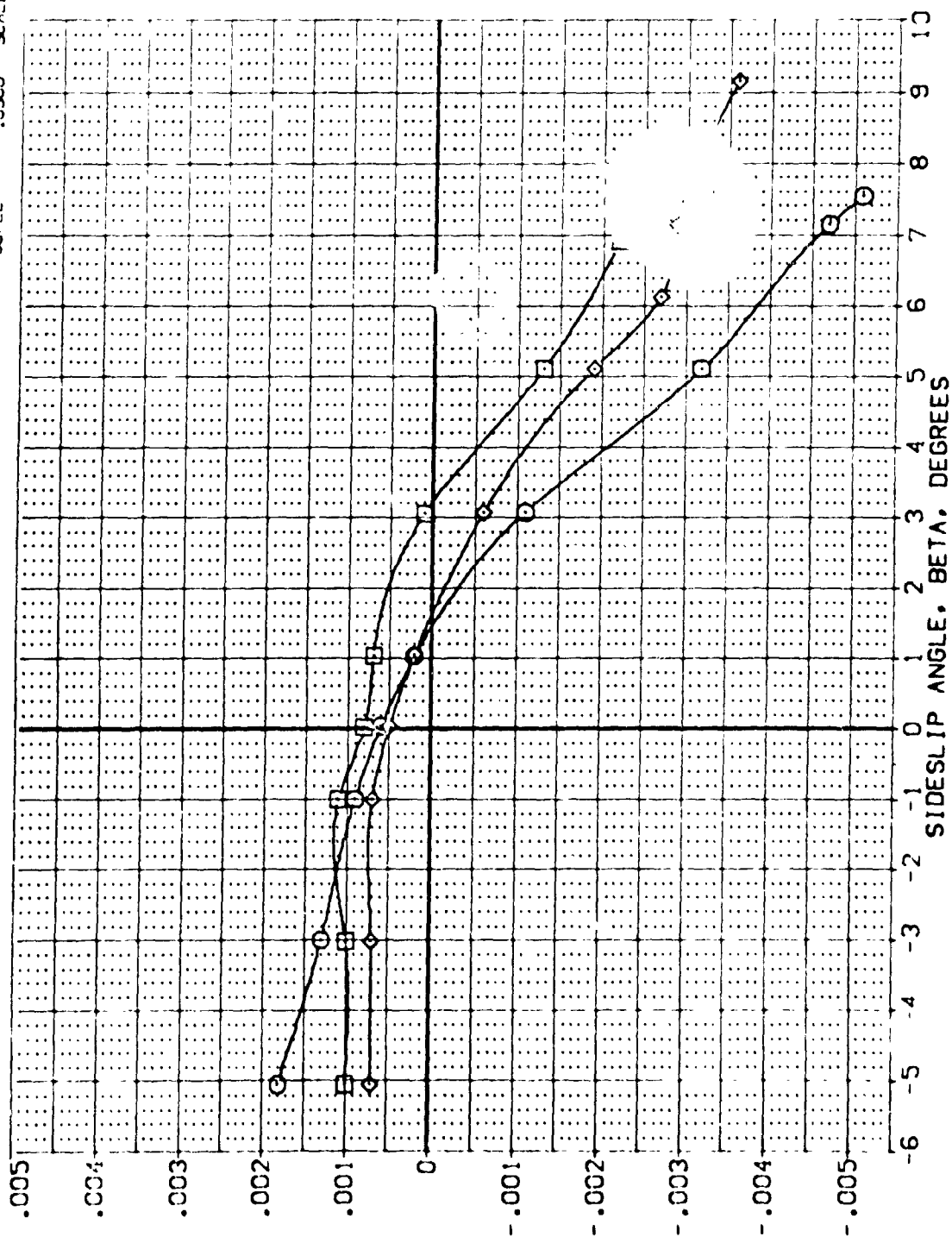


FIG. 25 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
(AERO76)	ARC 97-747 GAS38 B C H F VI V	10.000	.000	-11.700	75.000	SREF 2.4210 50. FT.
(AERO77)	ARC 97-747 GAS38 B C H F VI V	10.000	.000	-11.700	55.000	LREF 14.1440 IN.
(AERO78)	ARC 97-747 GAS38 B C H F VI V	10.000	.000	-11.700	65.000	BREF 28.1004 IN.
						XMRP 32.3015 IN.
						YMRP .0000 IN.
						ZMRP 11.7500 IN.
						SCALE .0000 IN.

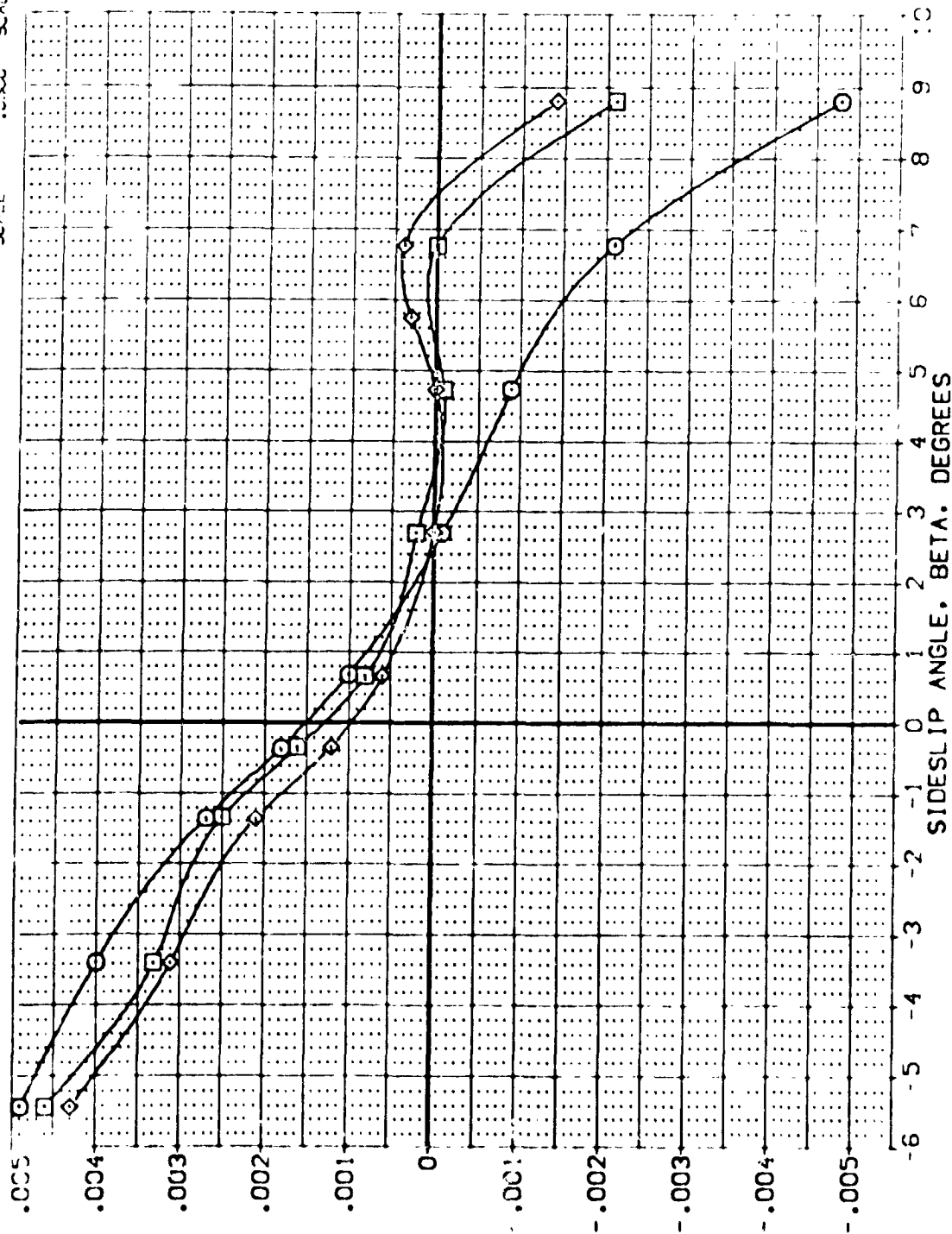


FIG. 25 SPEEDBRAKE EFFECTS

(B) VAC 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOLAP	SPDBRK	REFERENCE INFORMATION
(AEP076)	ARC 97-747 C-538 B C M F V	10.000	.000	-11.700	25.000	SREF 2.4210 SQ. FT.
(AEP077)	ARC 97-747 C-538 B C M F V	10.000	.000	-11.700	53.000	LREF 14.2443 IN.
(AEP078)	ARC 97-747 C-538 B C M F V	10.000	.000	-11.700	65.000	BRF 32.1004
						XMRP 32.3010
						YMRP 11.2500
						SCALE .0003

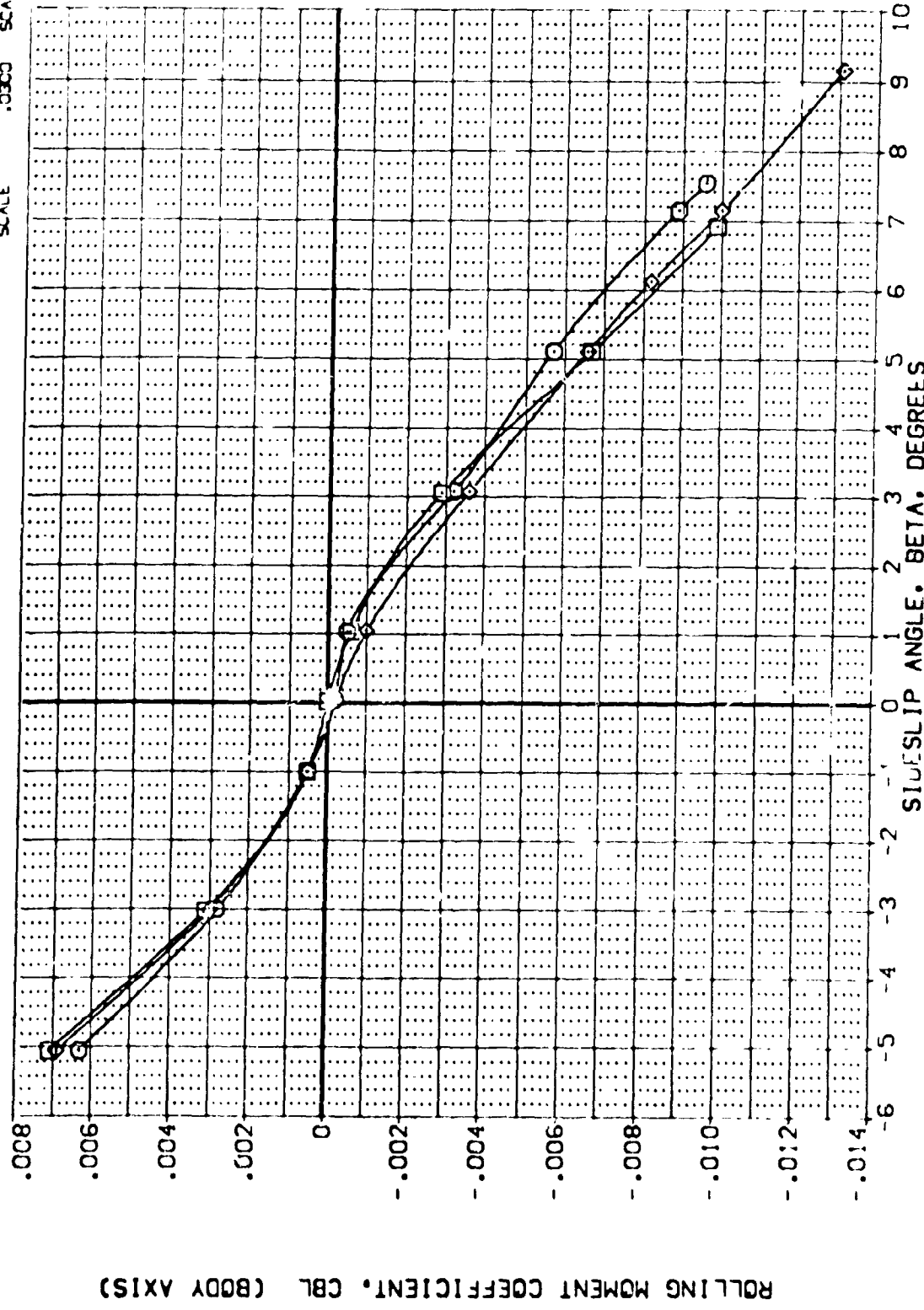


FIG. 25 SPEEDBRAKE EFFECTS

MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION ALPHA RUDDER BDF LAP SPD BRK REFERENCE INFORMATION

{AEK026}	ARC 97-747 DAS38 B C M F V	10.000	.000	-11.700	25.000	SREF	2.4210	SD, FT.
{AEK013}	ARC 97-747 DAS38 B C M F V	10.000	.000	-11.700	55.000	LREF	14.2440	
{AEK040}	ARC 97-747 DAS38 B C M F V	10.000	.000	-11.700	85.000	BREF	28.1004	
						KMRP	32.3010	
						VMRP	.0000	
						ZMRP	11.2500	SCALE
							.0300	

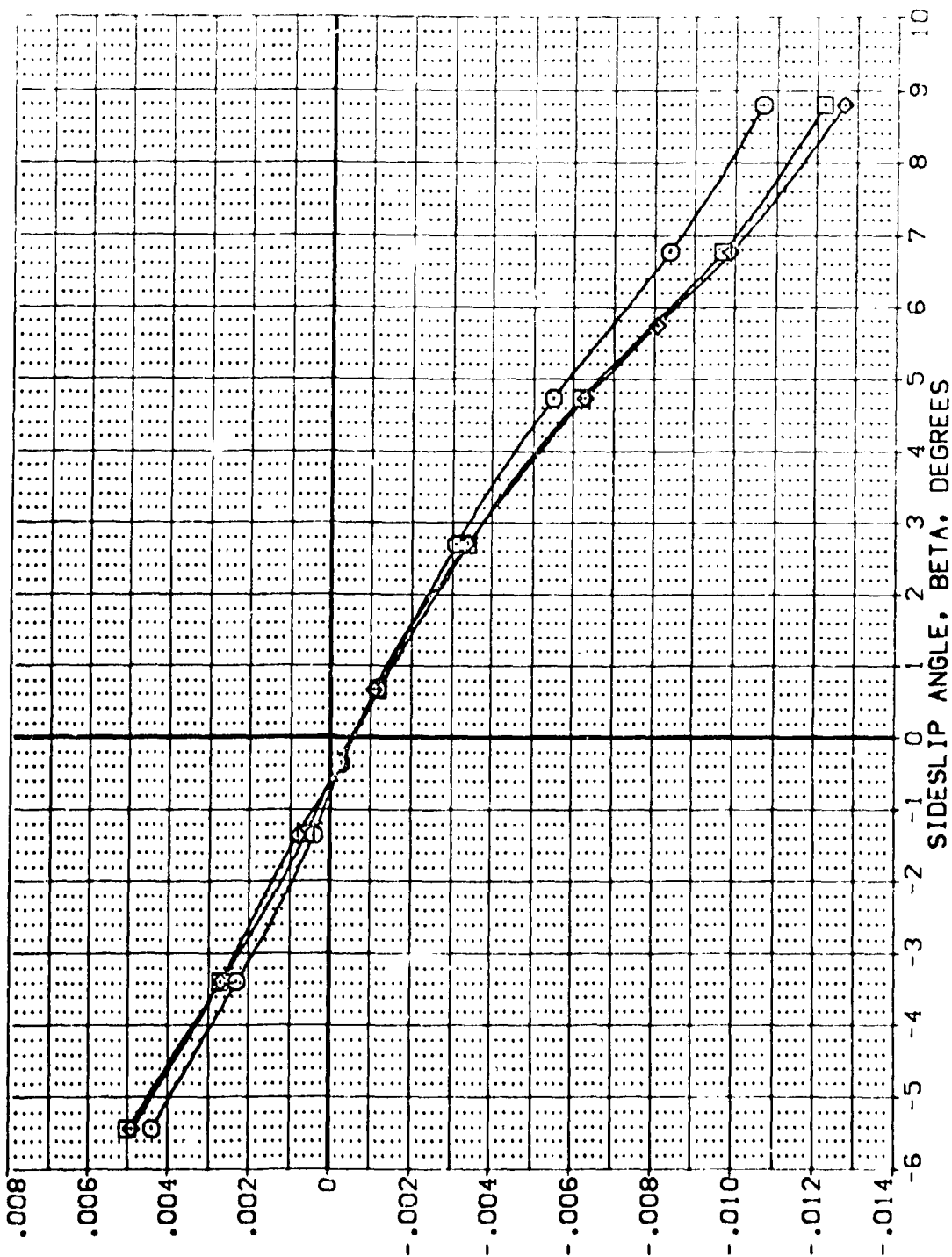


FIG. 25 SPEEDBRAKE EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (AER077) ABC 97-747 C1523 B C M F V
 (AER014) ABC 97-747 C1523 B C M F V
 (AER041) ABC 97-747 C1523 B C M F V

NO. RV/L
 NO. RV/L
 NO. RV/L

ALPHA
 20.000
 20.000
 20.000

RUDER
 .000
 .000
 .000

BOFLAP
 -11.700
 -11.700
 -11.700

SPOBRK
 25.000
 55.000
 85.000

REFERENCE INFORMATION
 SPREF 2.4210 SQ.FT.
 LRREF 14.2440 IN.
 BRREF 28.1004 IN.
 YMRP 32.3010 IN.
 YMRP 11.2500 IN.
 SCALE .0300

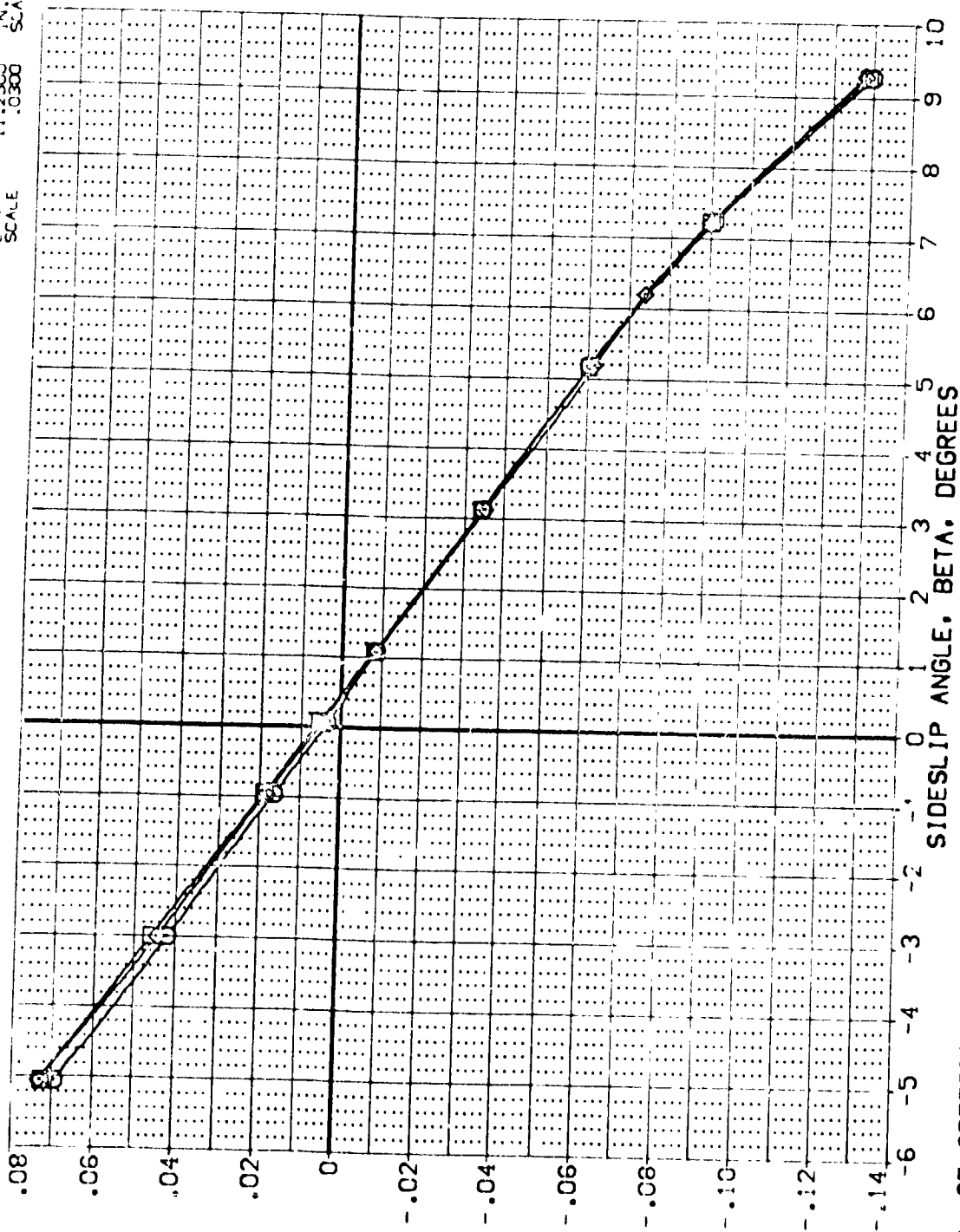


FIG. 25 SPEEDBRAKE EFFECTS

(M)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [AEK027] □ ARC 97-747 DAS38 B C M F V I V NOM: RV/L
 [AEK014] ◇ ARC 97-747 DAS38 B C M F V I V NOM: RV/L
 [AEK041] ◇ ARC 97-747 DAS38 B C M F V I V NOM: RV/L

ALPHA RUDDER BDF LAP SPEEDBRK
 25.000 .000 -11.700 75.000
 25.000 .000 -11.700 55.000
 20.000 .000 -11.700 65.000

REFERENCE INFORMATION
 SREF 2.4210 SC.F.
 LREF 14.2440 SC.F.
 BREF 28.1004 SC.F.
 Y400 32.3010 SC.F.
 Y450 32.0000 SC.F.
 Y480 11.2000 SC.F.
 SCALE .0300 SCALE

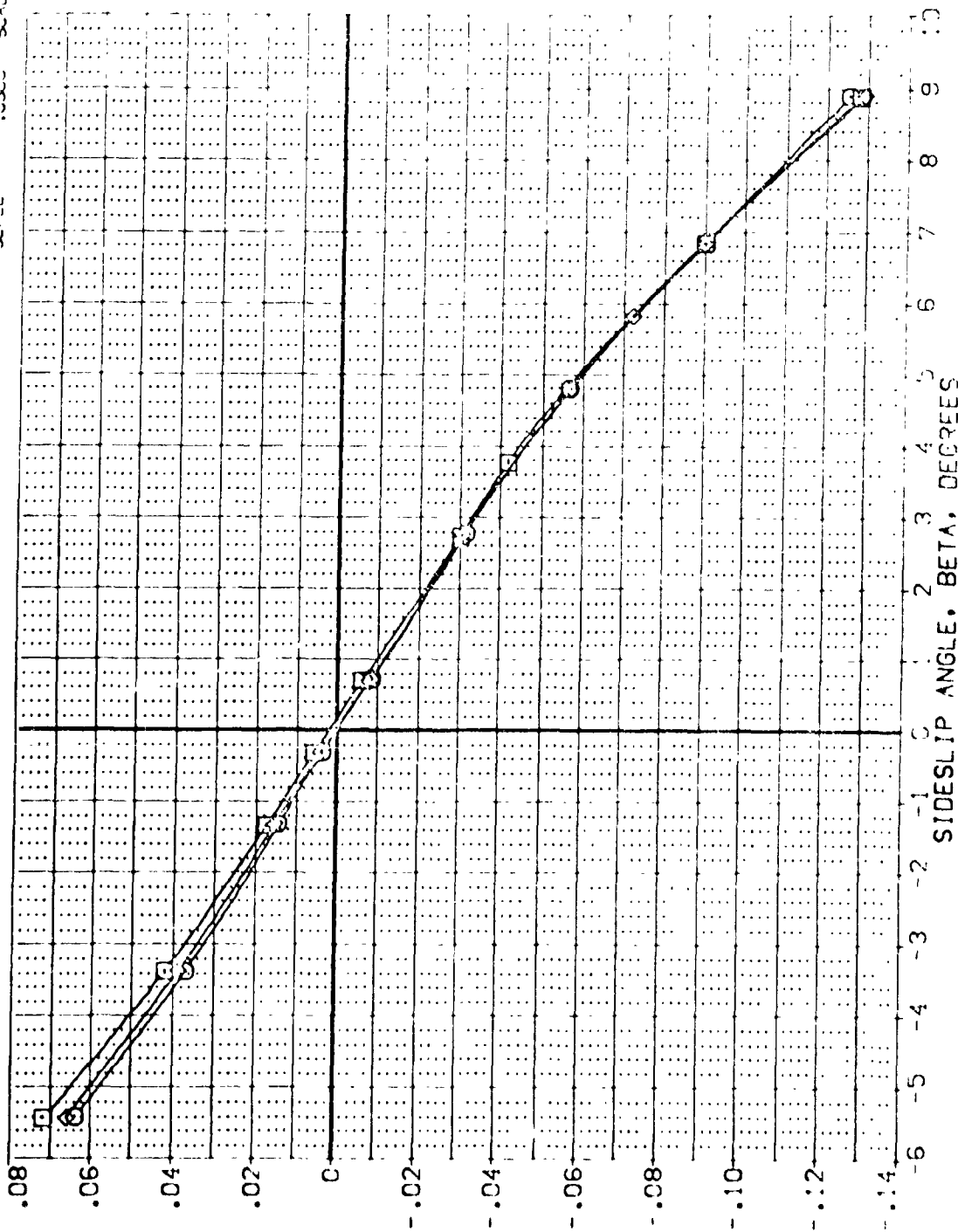
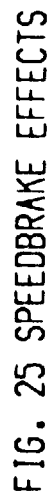


FIG. 25 SPEEDBRAKE EFFECTS

(B) VAC = 2.00

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)


$$[A]_{MAC-I} = 1.60$$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BDLAP	SPOBRK	REFERENCE INFORMATION
(AEK027)	ARC 97-747 OAS38 B C M F VI V	20.000	.000	-11.700	25.000	SREF 2.4210 SC.F.T.
(AEK041)	ARC 97-747 OAS38 B C M F VI V	20.000	.000	-11.700	55.000	REF 14.2440
(AEK041)	ARC 97-747 OAS38 B C M F VI V	20.000	.000	-11.700	85.000	REF 28.1004
						XREF 32.3010
						YREF .0000
						ZREF 11.2500
						SCALE .0300

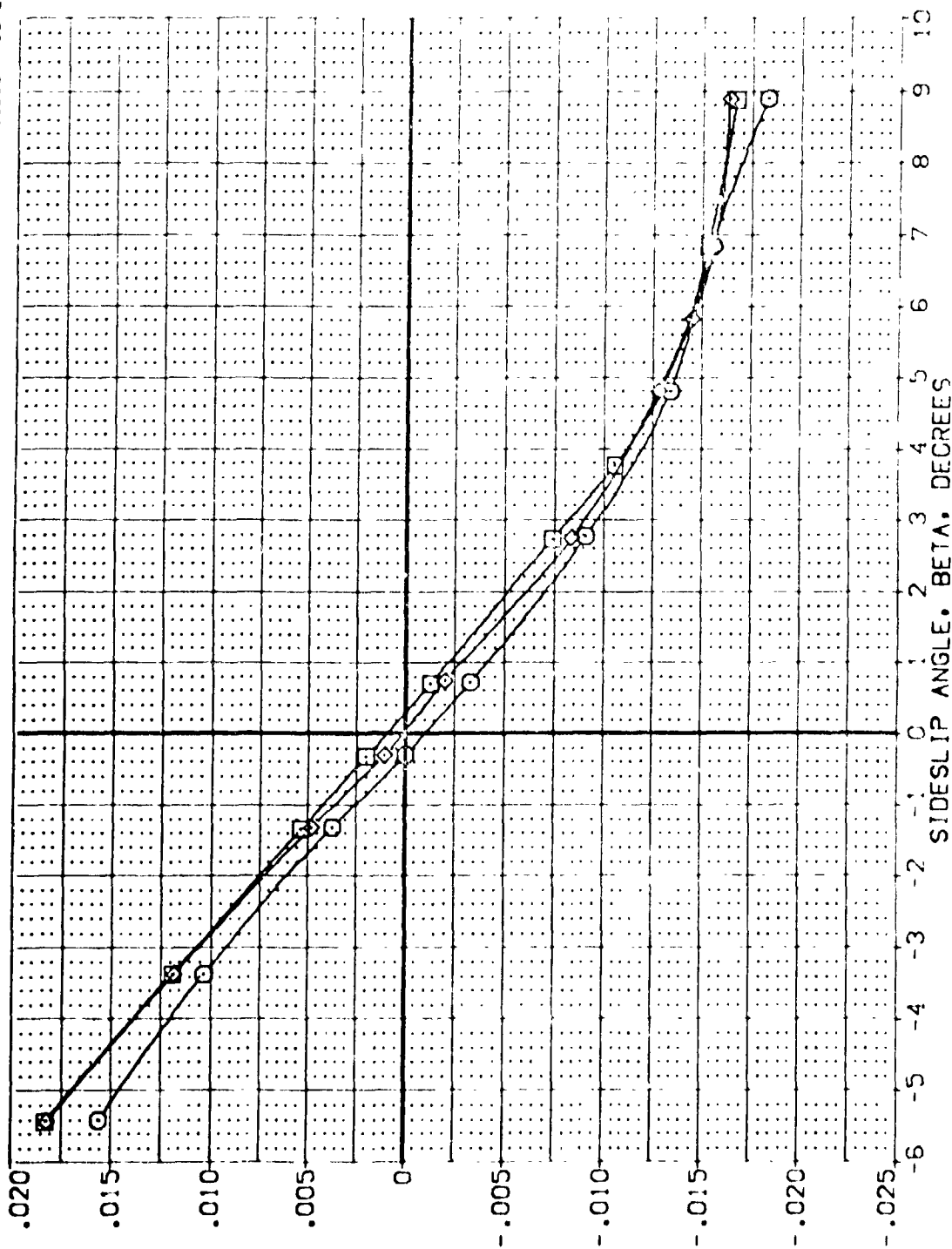


FIG. 25 SPEEDBRAKE EFFECTS

(B)MAC = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
[AER027]	ABC 97-747 C-538 B C M F V	20.000	.000	-11.700	75.000	SREF 2.4210 SC. FT.
[AER014]	ABC 97-747 C-538 B C M F V	20.000	.000	-11.700	55.000	LREF 14.2440
[AER041]	ABC 97-747 C-538 B C M F V	20.000	.000	-11.700	65.000	BREF 28.1004
						XREF 32.3610
						YREF 0.000
						ZREF 11.2500
						SCALE .0300

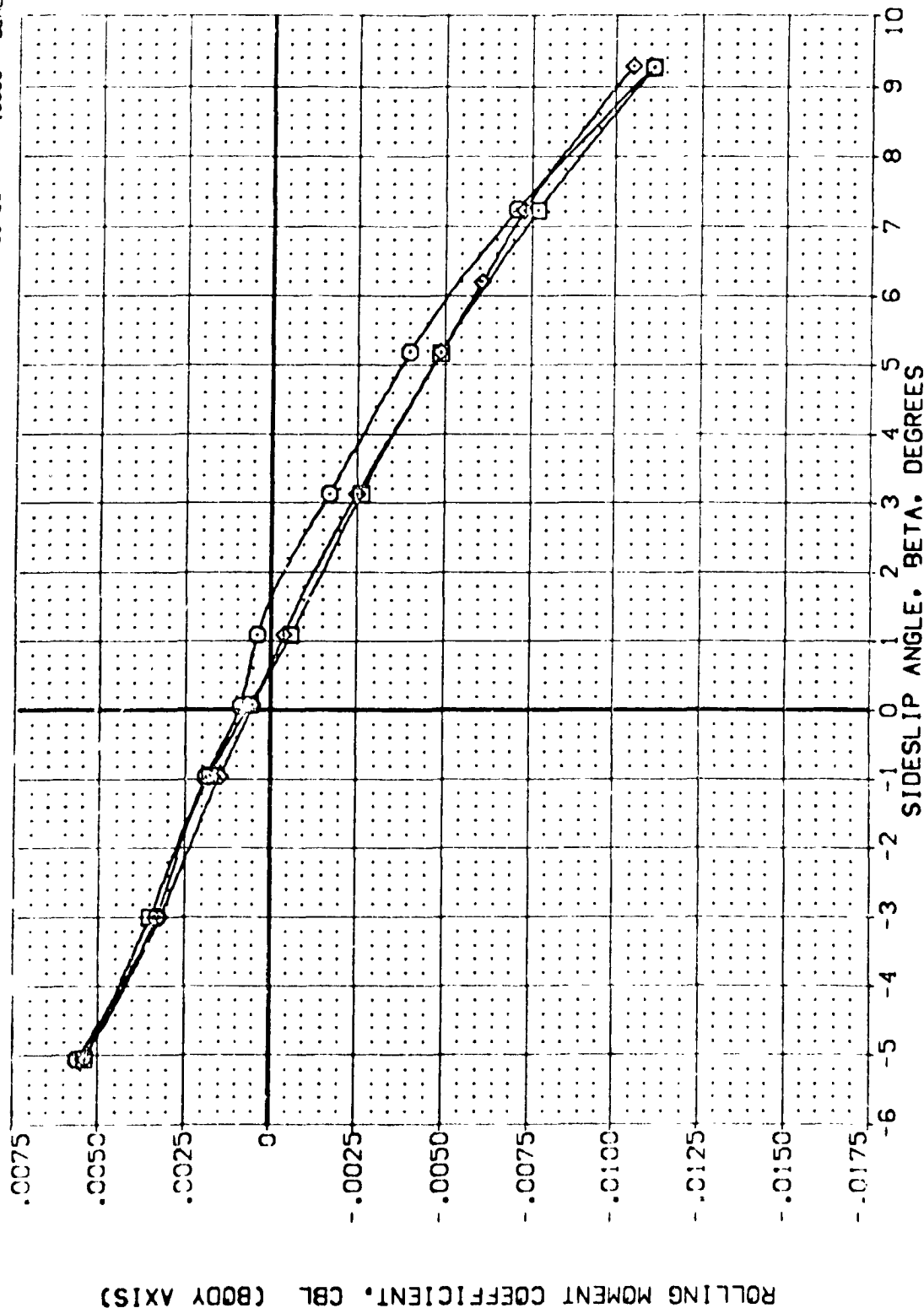


FIG. 25 SPEEDBRAKE EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BDLAP	SPOBRK	REFERENCE INFORMATION
[AEK077]	ARC 97-747 DAS38 B C M F V1 V	20.000	.000	-11.700	25.000	SREF 2.4210 SQ.FT.
[AEK074]	ARC 97-747 DAS38 B C M F V1 V	20.000	.000	-11.700	55.000	LREF 14.2440
[AEK041]	ARC 97-747 DAS38 B C M F V1 V	20.000	.000	-11.700	85.000	BREF 28.1004
						XMPP 32.3010
						YMPP .0000
						ZMPP 11.2500
						SCALE .0300

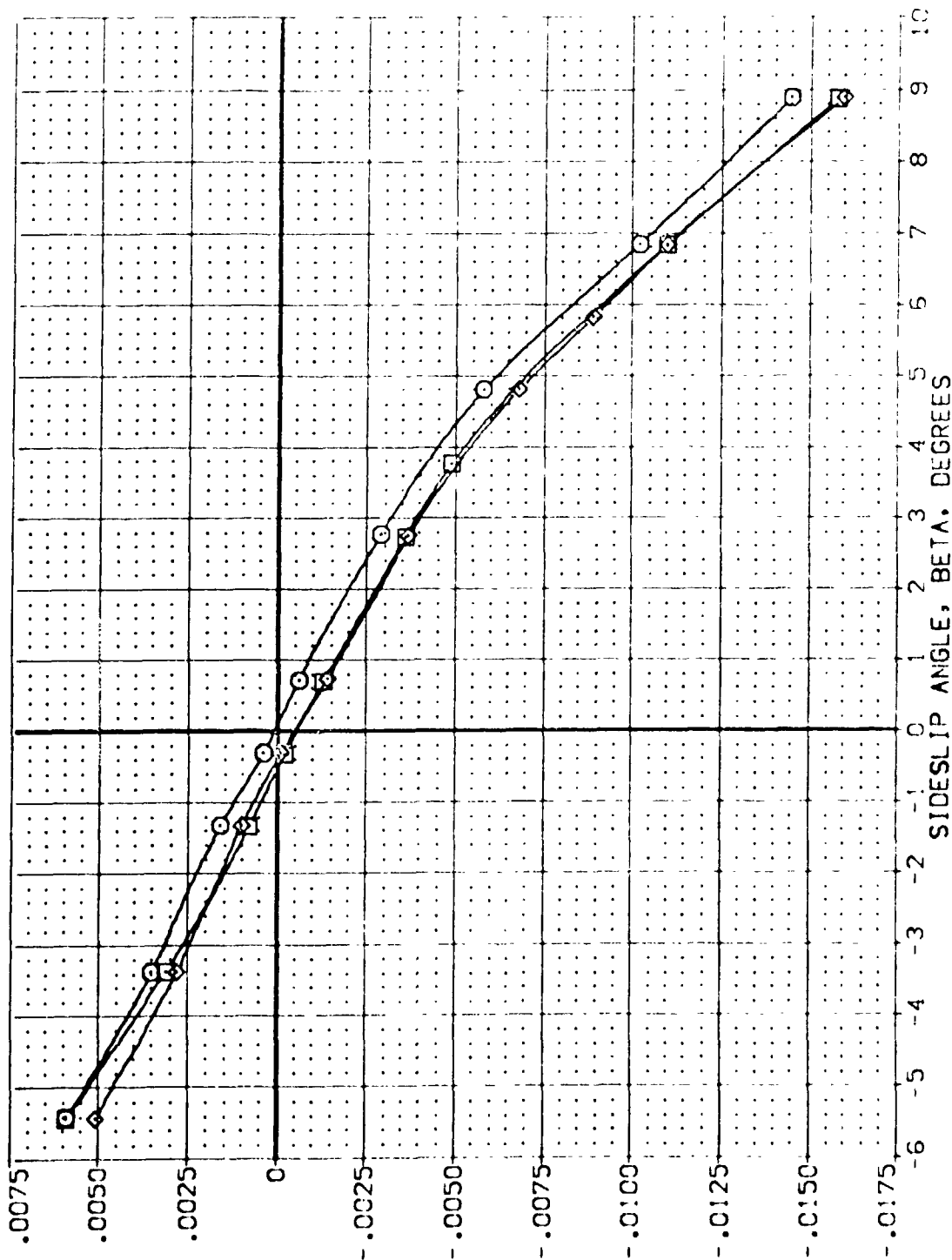
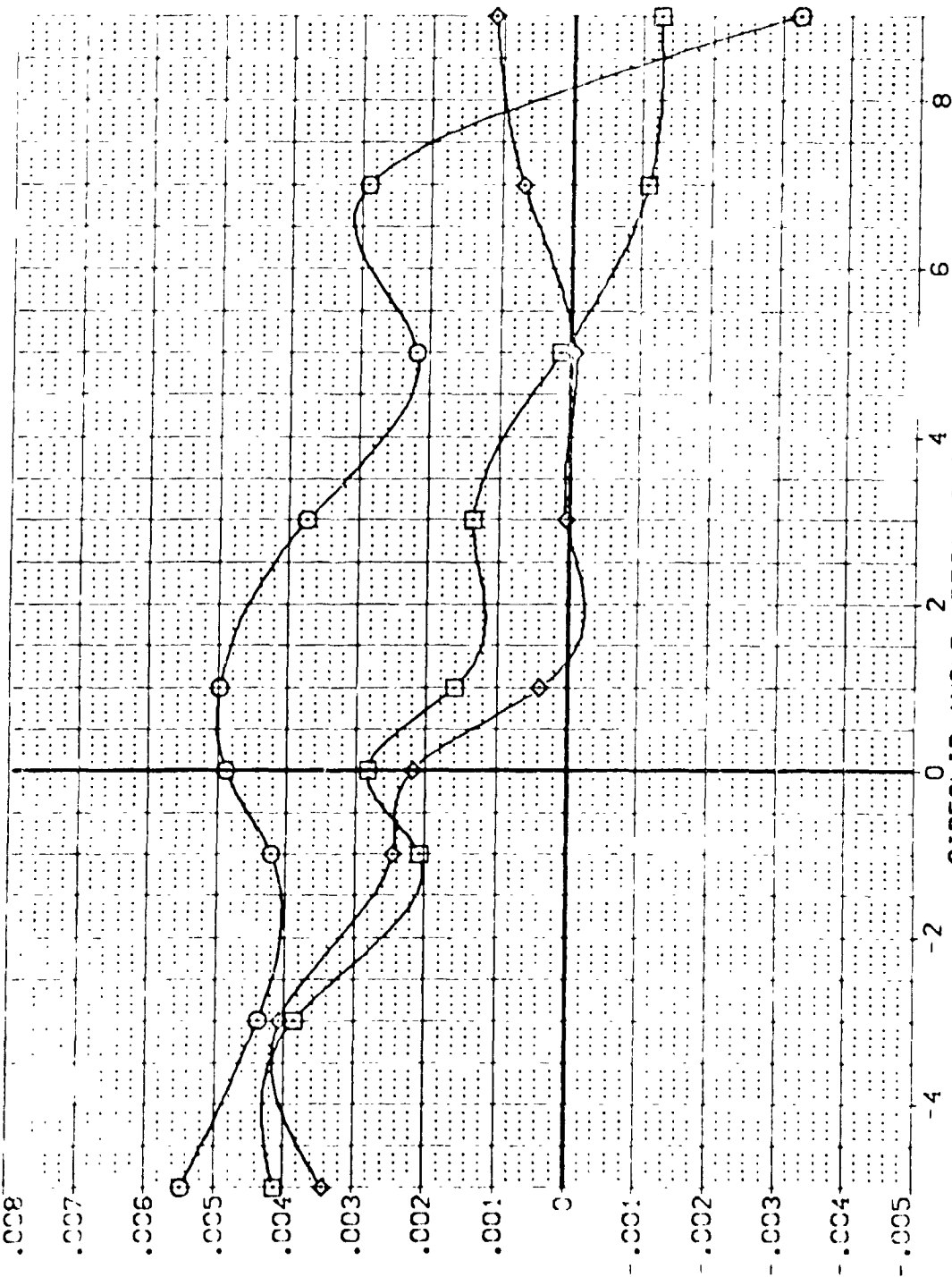


FIG. 25 SPEEDBRAKE EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOULAP	ELEVON	REFERENCE INFORMATION
(1) (2) (3) (4)	ABC 97-747 B C U F V	.000	.000	.000	.000	SPICE 2.4210 SC.FT.
	ABC 97-747 B C U F V	.000	.000	.000	.000	SPICE 14.2440
	ABC 97-747 B C U F V	.000	.000	.000	.000	SPICE 28.0004
	ABC 97-747 B C U F V	.000	.000	.000	.000	SPICE 32.0010
	ABC 97-747 B C U F V	.000	.000	.000	.000	SPICE 11.2500
	ABC 97-747 B C U F V	.000	.000	.000	.000	SCALE



INCREMENTAL SIDE FORCE COEFFICIENT, DCY

SIDESLIP ANGLE, BETA, DEGREES

FIG. 26 INCREMENTAL SPEEDBRAKE EFFECTS (DSB= 55 - 25)

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[VEH012] Q ARC 97-747 0A538 B C M F V] V NOM. RVUL

[VEH013] Q ARC 97-747 0A538 B C M F V] V NOM. RVUL

[VEH014] Q ARC 97-747 0A538 B C M F V] V NOM. RVUL

ALPHA .000
10.000
20.000

RUDER .000
.000
.000

BOFLAP -11.700
-11.700
-11.700

ELEVON .000
.000
.000

REFERENCE INFORMATION

SREF 2.4210 SC.FT.

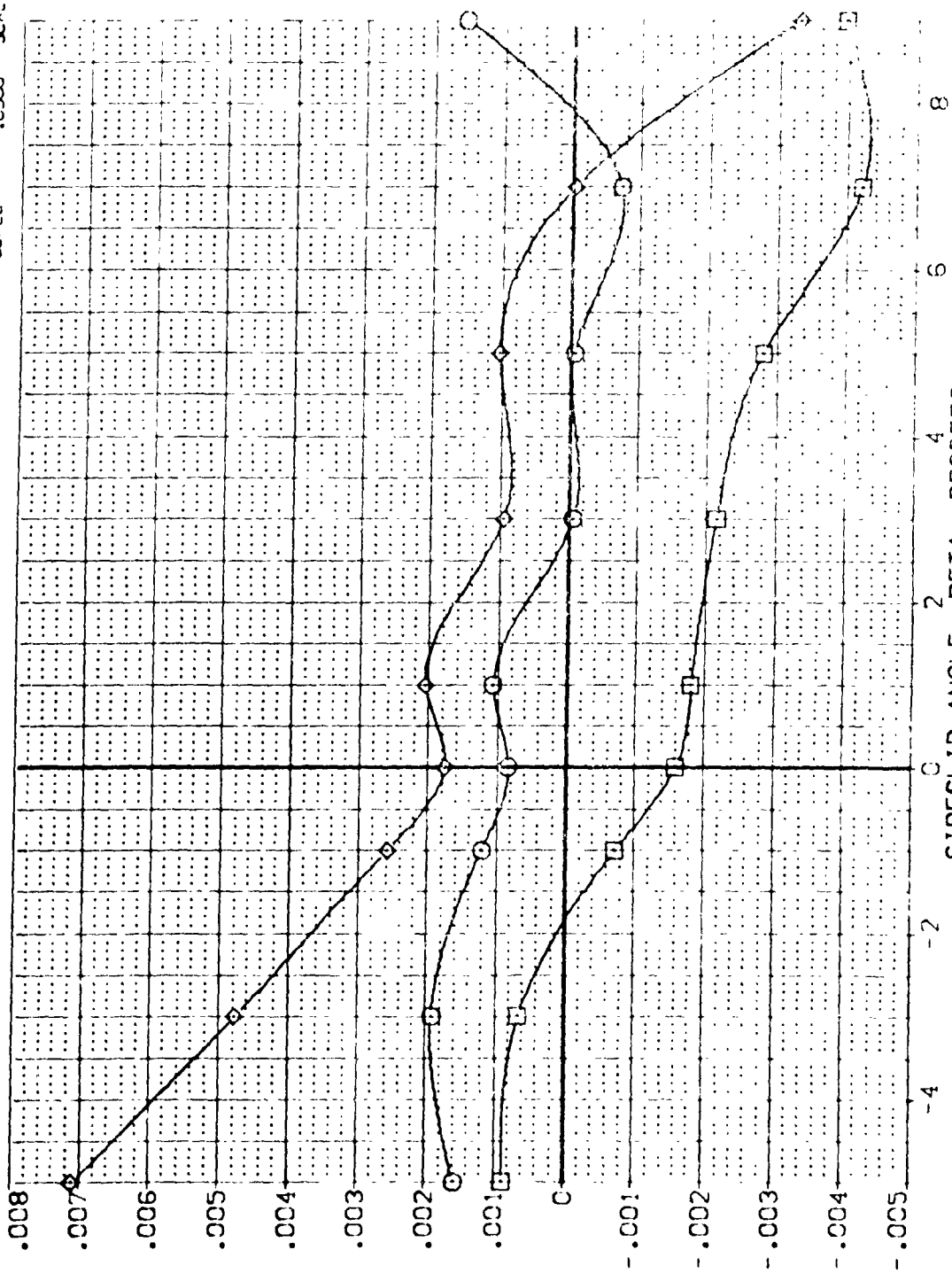
LRSE 11.2440

BRSE 28.1000

YMRD 30.3010

ZMRD 11.2500

SCALE .0300



INCREMENTAL SIDE FORCE COEFFICIENT, DCY

SIDSLIP ANGLE, BETA, DEGREES

FIG. 26 INCREMENTAL SPEEDBRAKE EFFECTS (DSB= 55 · 25)

(B)MAC = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION ALPHA RUDDER BOFLAP ELEVON REFERENCE INFORMATION

Symbol	Configuration	Alpha	Rudder	Boflap	Elevon	SREF	LREF	BREF	YREF	ZREF	Scale
○	ARC 97-747 QASBR B C M F V1 V	.000	.000	-11.700	.000	2.4210	14.2440	28.1004	.0000	.0000	1.0000
◇	ARC 97-747 QASBR B C M F V1 V	10.000	.000	-11.700	.000	2.4210	14.2440	28.1004	.0000	.0000	1.0000
□	ARC 97-747 QASBR B C M F V1 V	20.000	.000	-11.700	.000	2.4210	14.2440	28.1004	.0000	.0000	1.0000

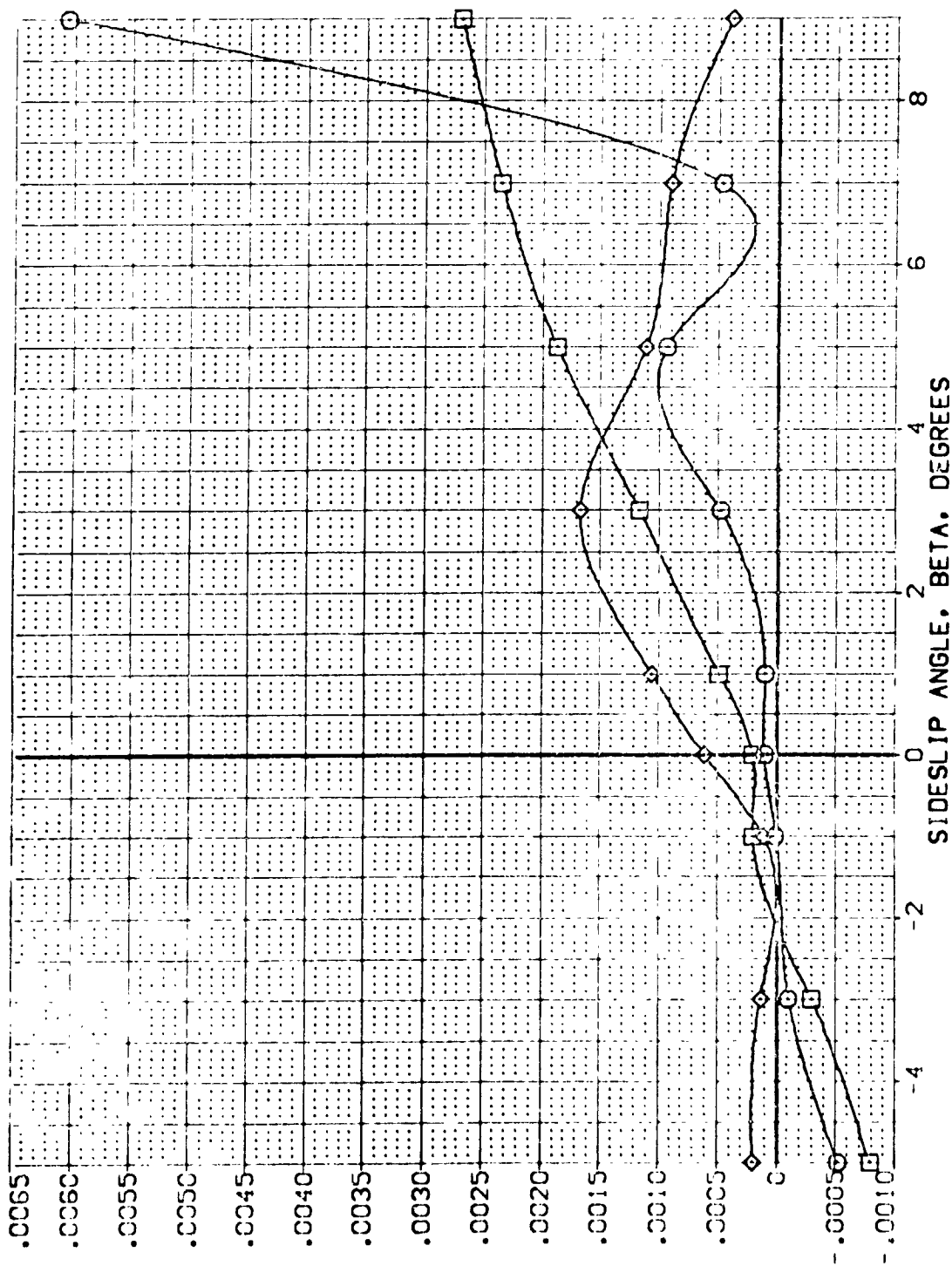


FIG. 26 INCREMENTAL SPEEDBRAKE EFFECTS (OSB= 55 - 25)

(A) V_{ACH} = 1.60

DATA SET SYMBOL	CONF	DESCRIPTION	ALPHA	RUDDER	BOFLAP	ELEVON	REFERENCE INFORMATION
VE=0.12	Q	ARC 97-747 OASB B C M F V I V	.000	.000	-11.700	.000	SREF 2.4210 SQ.FT.
VE=0.13	Q	ARC 97-747 OASB B C M F V I V	10.000	.000	-11.700	.000	LREF 14.2440
VE=0.14	Q	ARC 97-747 OASB B C M F V I V	20.000	.000	-11.700	.000	SREF 28.1004
							LREF 32.3000
							YREF 11.5000
							ZREF 11.5000
							SCALE .0000

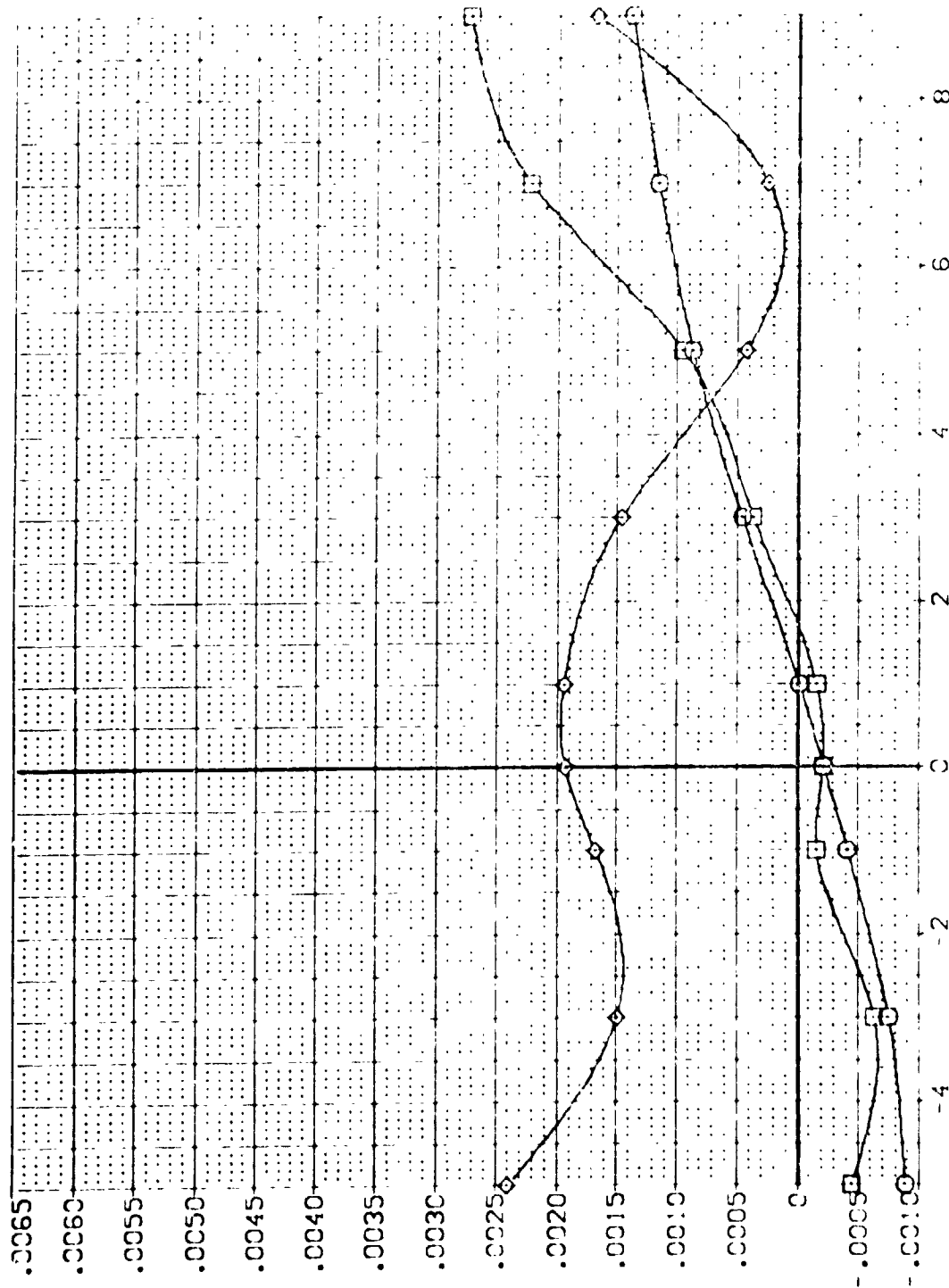


FIG. 26 INCREMENTAL SPEEDBRAKE EFFECTS (DSB= 55 - 25)

(B)YAC= 2.00

INCREMENTAL ROLLING MOMENT COEFFICIENT, DCBL

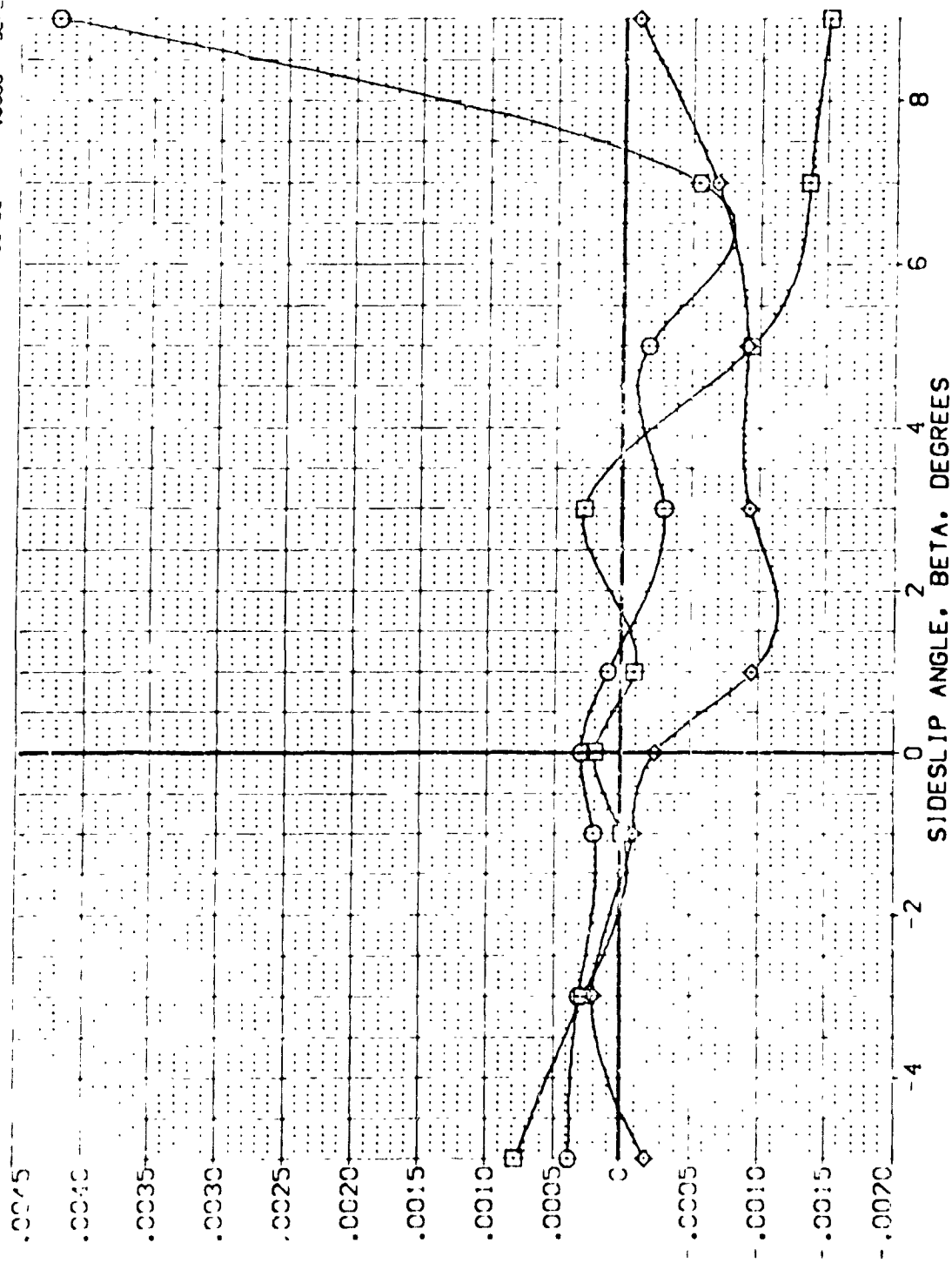





FIG. 26 INCREMENTAL SPEEDBRAKE EFFECTS (DSB= 55 - 25)

$$1.60 = \frac{1}{\gamma} \left(\frac{1}{1.60} \right)$$

ALPHA	RUDDER	BUFLAP	ELEVON
.000	.000	-11.750	.000
10.000	.000	-11.750	.000
20.000	.000	-11.750	.000

REFERENCE INFORMATION	
SREF	2,4210 SQ.FT.
LTRE	14,2440
BREF	28,1204
WROD	30,3810
WROD	30,3810
WROD	11,2500
SCALE	1,3000

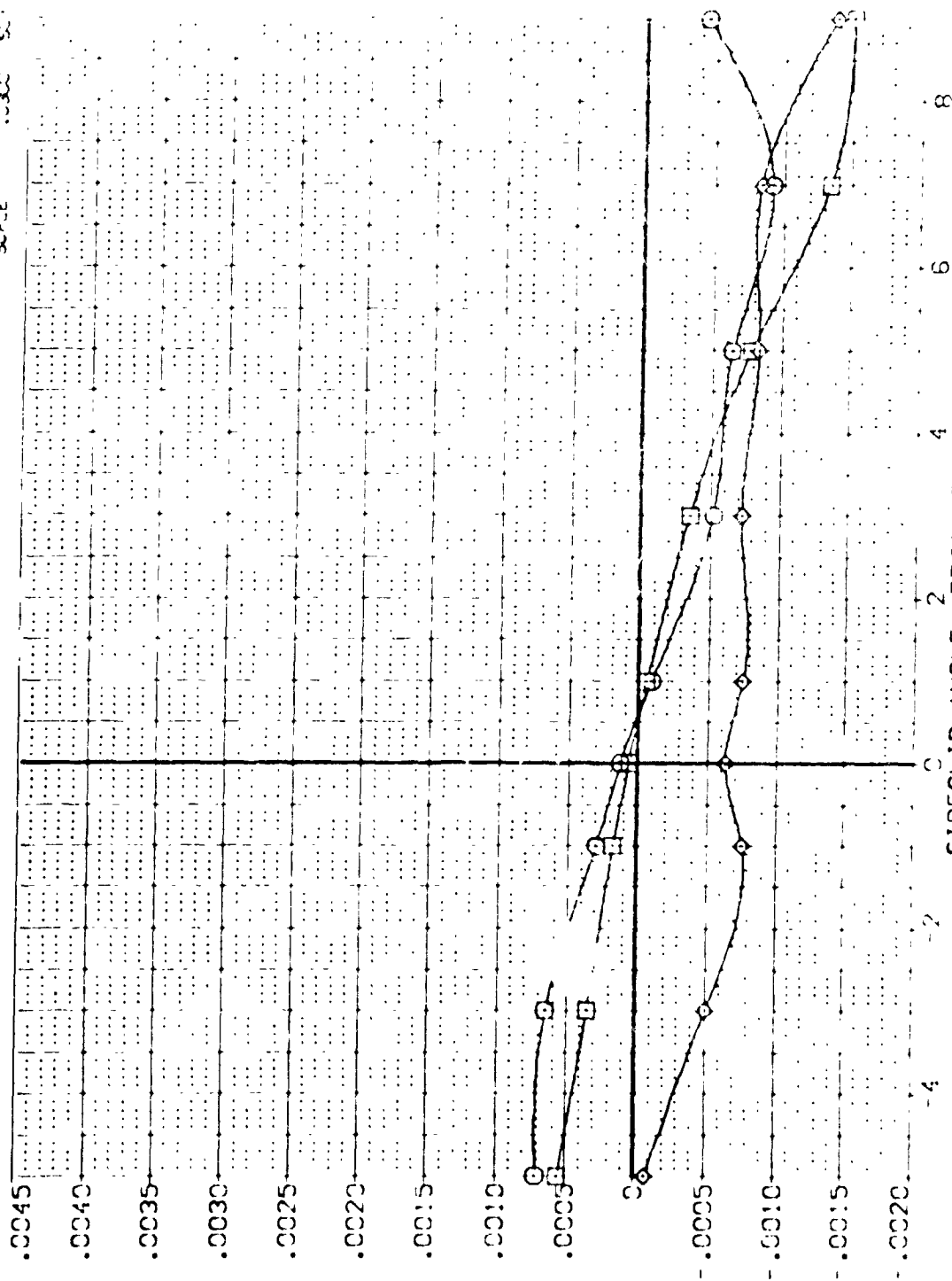


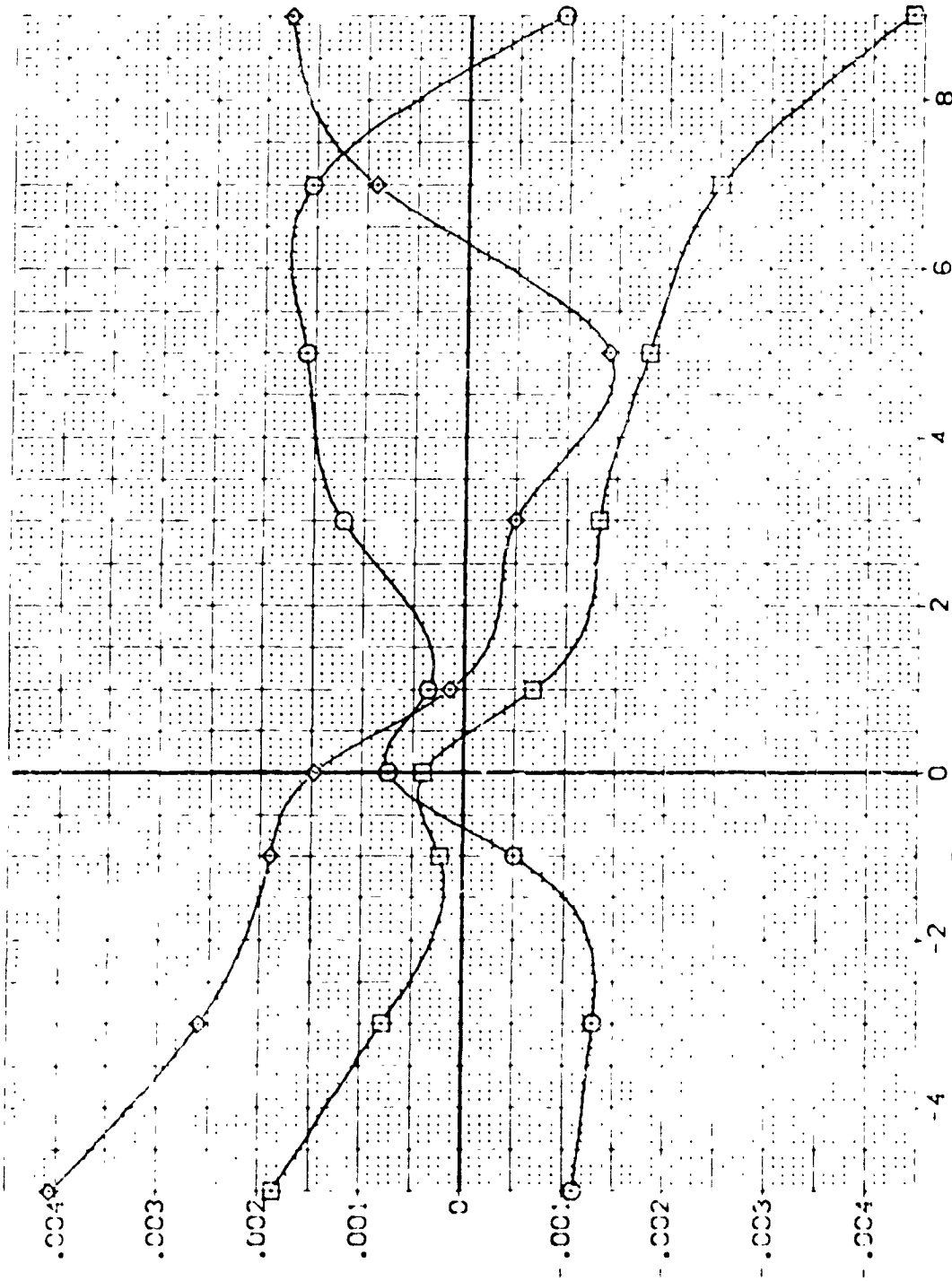
FIG. 26 INCREMENTAL SPEEDBRAKE EFFECTS (DSB= 55 - 25)

(3) $\alpha = 2.33$

DATA SET SYMBOL DESCRIPTION
 110028 17 24538 B C F V 1
 110040 17 247 24538 B C F V 1
 110041 17 247 24538 B C F V 1

ALPHA RUDDER BOFLAP ELEVON
 .000 .000 .000 .000
 .000 .000 .000 .000
 .000 .000 .000 .000

REFERENCE INFORMATION
 SP-1 2.4210 SQ.FT.
 IN-1 14.2440 SQ.FT.
 BR-1 18.1004 SQ.FT.
 YMRP 32.3010 SQ.FT.
 ZMRP 11.2500 SQ.FT.
 SCALE 1.0000

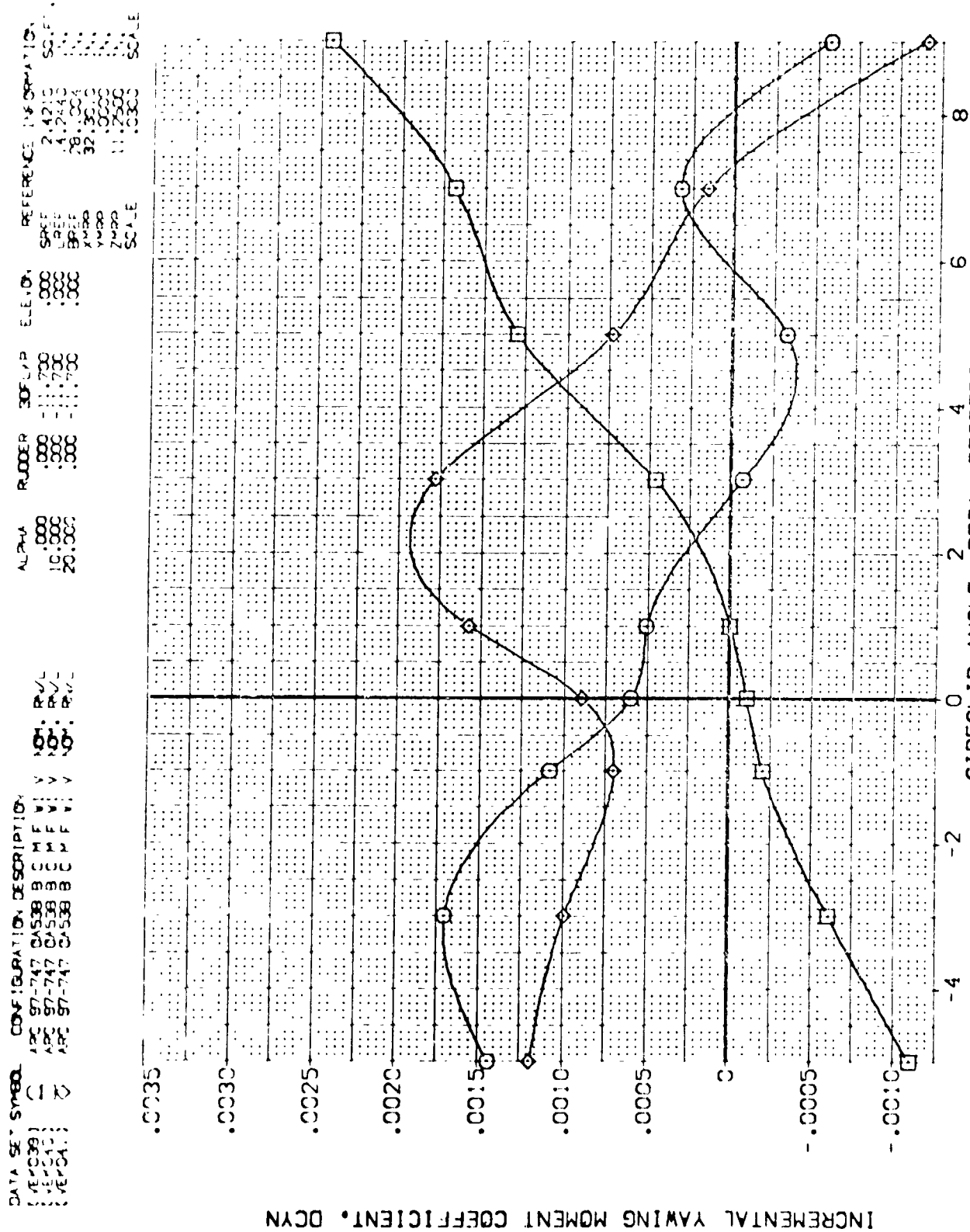


INCREMENTAL SIDE FORCE COEFFICIENT, DCY

SIDSLIP ANGLE, BETA, DEGREES

FIG. 27 INCREMENTAL SPEEDBRAKE EFFECTS. (DSB= 85 -25)

(A)MACH = 1.60



DATA SET SYMBOL CONFIGURATION DESCRIPTION

ARC 97-747	DSB	B	C	M	F	V
ARC 97-747	DSB	B	C	M	F	V
ARC 97-747	DSB	B	C	M	F	V

ALPHA
0.000
10.000
20.000

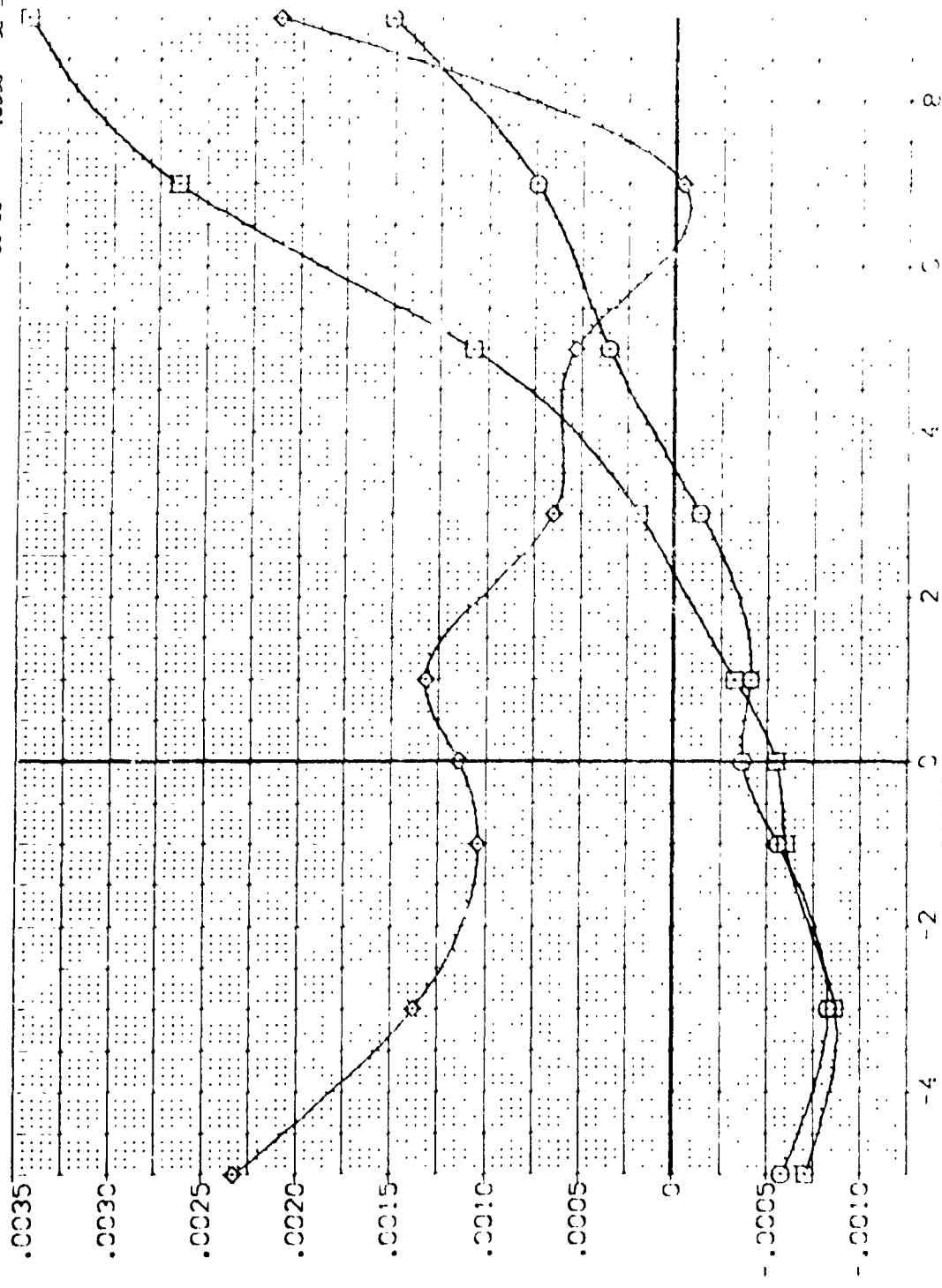
RUDER
0.000
0.000
0.000

BOF LAP
0.000
0.000
0.000

ELEVON
0.000
0.000
0.000

REFERENCE INFORMATION

SPR	2.421	SCAL
DEF	14.242	SCAL
SPR	28.100	SCAL
DEF	37.300	SCAL
SPR	14.242	SCAL
DEF	11.200	SCAL



INCREMENTAL YAWING MOMENT COEFFICIENT, DCYN

FIG. 27 INCREMENTAL SPEEDBRAKE EFFECTS, (DSB= 85 -25)

(B)YAC- = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDER	BOFLAP	ELEVON	REFERENCE INFORMATION
(VEK038)	ALC 97-747 DASSB B C M F V	.000	.000	-11.700	.000	SREF 2.4210 SQ.FT.
(VEK040)	ALC 97-747 DASSB B C M F V	10.000	.000	-11.700	.000	UREF 14.2440
(VEK041)	ALC 97-747 DASSB B C M F V	20.000	.000	-11.700	.000	BREF 28.1004
						XMRD 32.3010
						YMRD .0000
						ZMRD 11.2500
						SCALE .0300

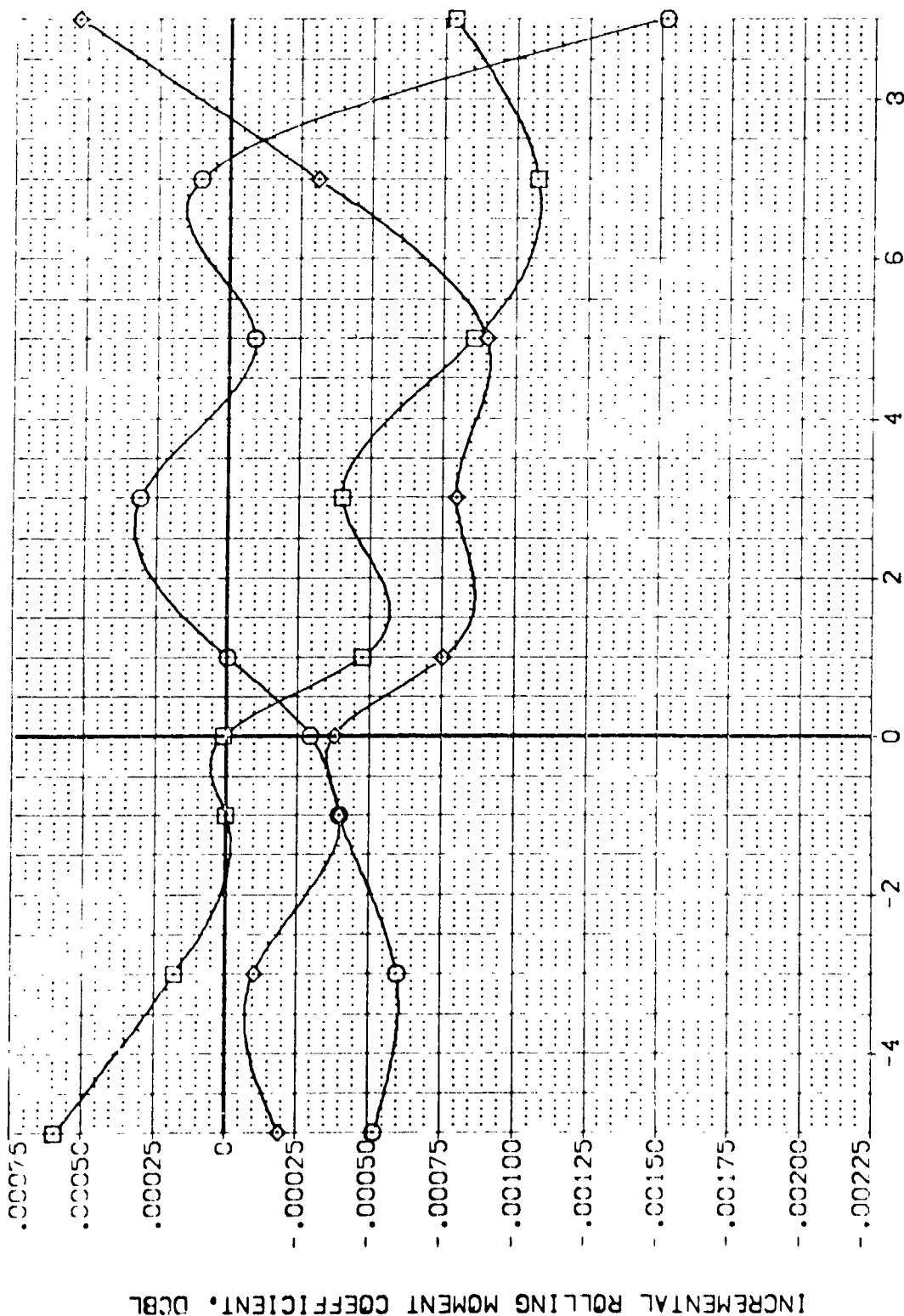
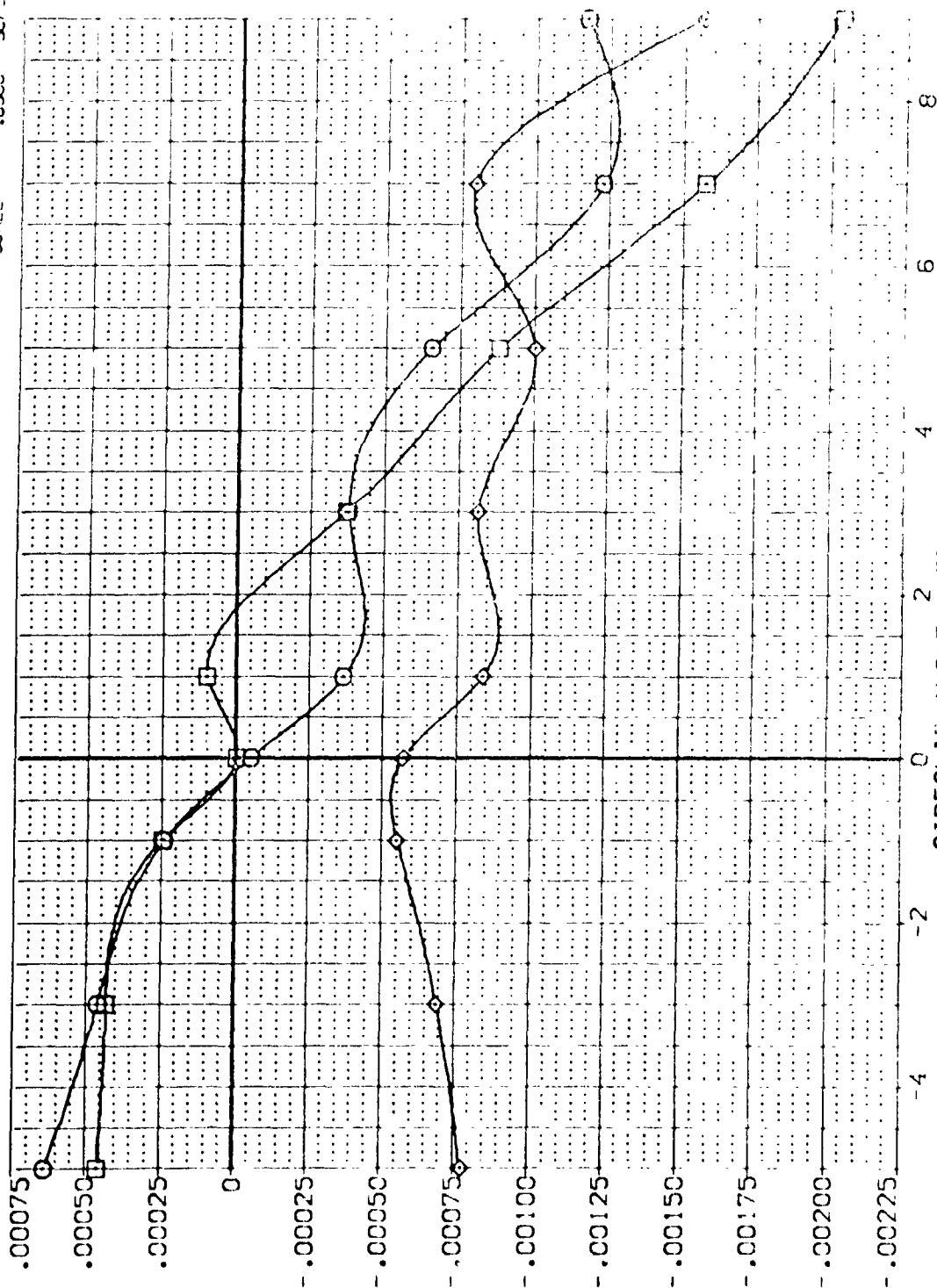


FIG. 27 INCREMENTAL SPEEDBRAKE EFFECTS. (DSB= 85 -25)

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDER	BOG LAP	ELEVON	REFERENCE INFORMATION
(VE038)	ARC 97-747 DA538 B C M F V1 V	.000	.000	-11.700	.000	SREF 2.4210 SQ.FT.
(VE040)	ARC 97-747 DA538 B C M F V1 V	10.000	.000	-11.700	.000	SREF 14.2440
(VE041)	ARC 97-747 DA538 B C M F V1 V	20.000	.000	-11.700	.000	SREF 28.1004
						YMRP 32.3010
						ZMRP .0000
						SCALE 11.2500
						SCALE .0300



INCREMENTAL ROLLING MOMENT COEFFICIENT, DCBL

SIDESLIP ANGLE, BETA, DEGREES

FIG. 27 INCREMENTAL SPEEDBRAKE EFFECTS. (DSB= 85 -25)

(B)MACH = 2.00

SALE FORCE COEFF. DERIV. WITH SPEED BRAKE DEFL., DCY/DS, PER DEG

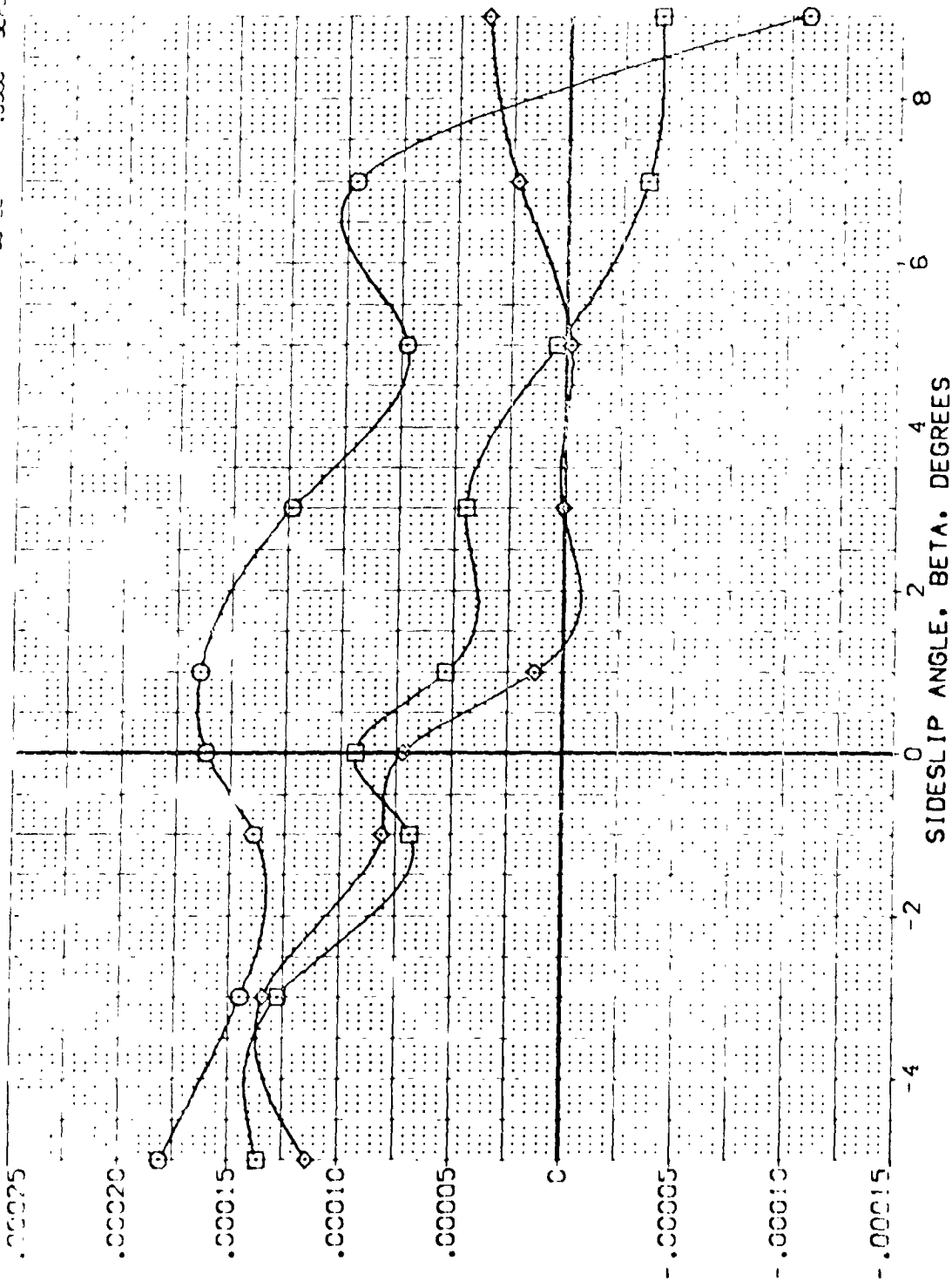
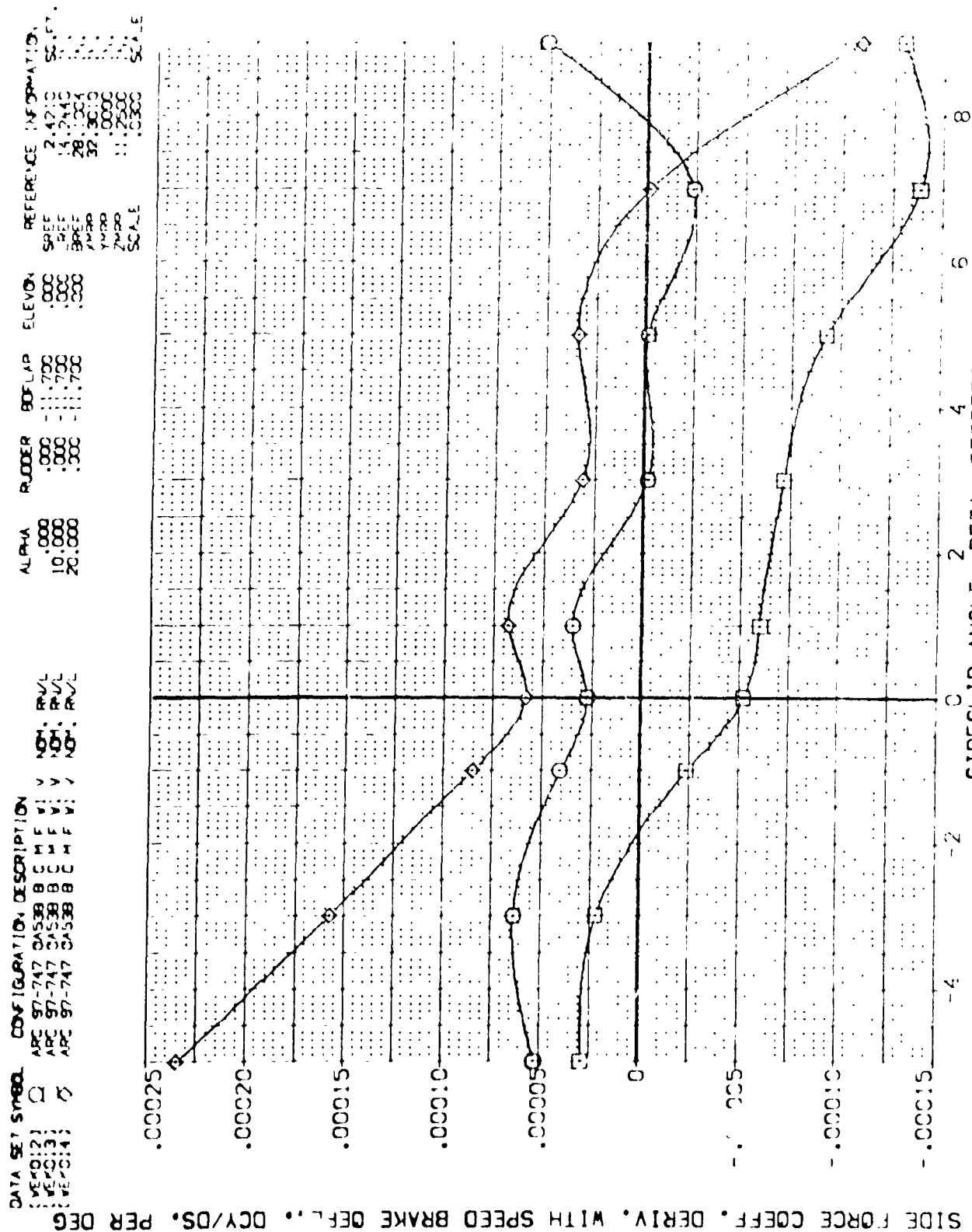


FIG. 28 SPEEDBRAKE DERIVATIVES, 55 DEGS. DEFLECT. (BASELINE = 25 DEGS.)

09:11 (A) (A)



(3) $\gamma_1 = 2.0$

5543

YAWING MOMENT COEFF. DERIV. WITH SPEED BRAKE DEF., DYCYNDS. PER DEG

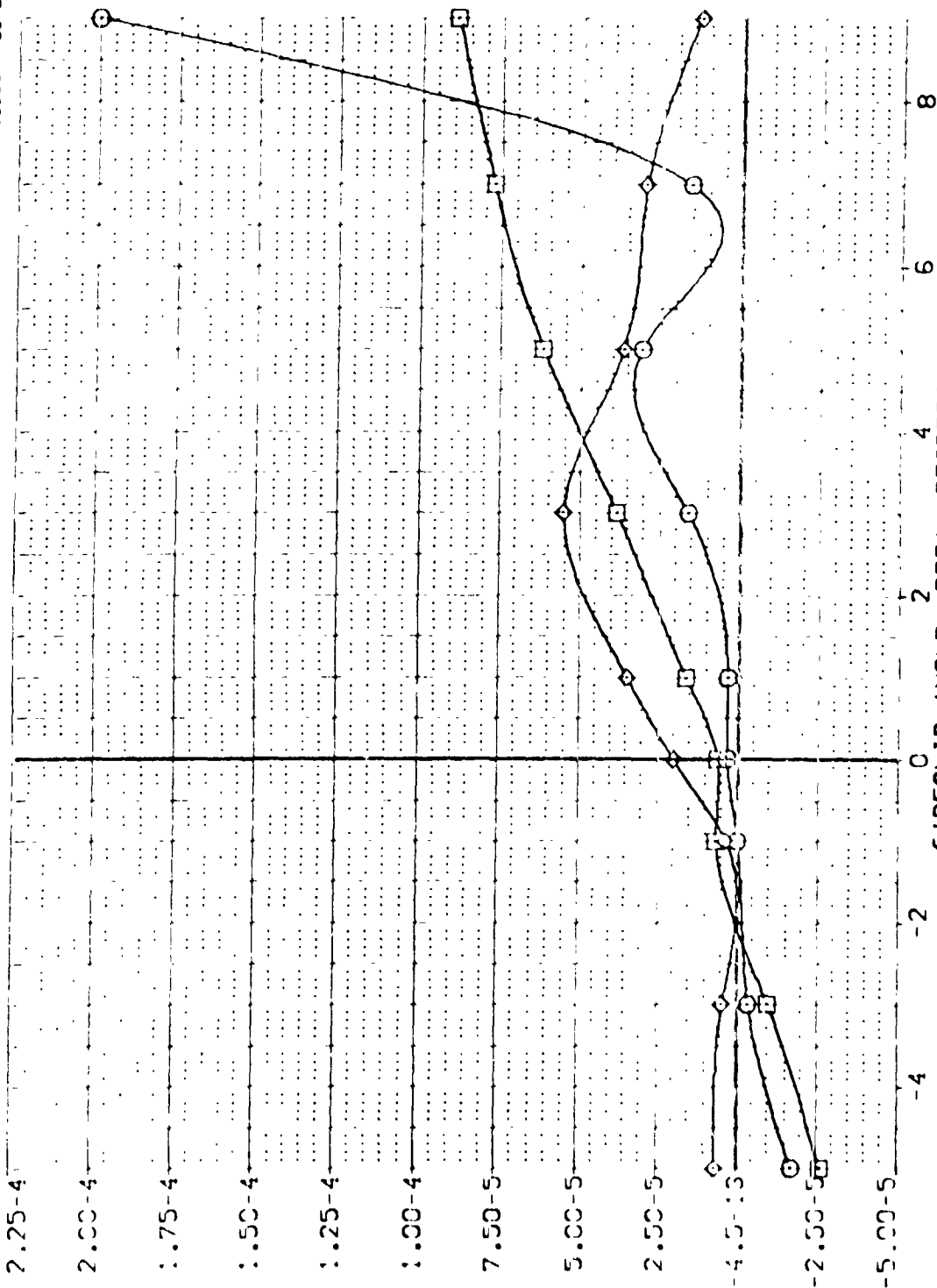
[illegible]

FIG. 28 SPEEDBRAKE DERIVATIVES, 55 DEGS. DEFLECT. (BASELINE = 25 DEGS.)

(C)
 (D)
 ..
 =
 I
 (C)
 A
 3
 (C)
 A
 (C)

DATA SET SYMBOL CONFIGURATION DESCRIPTION:
 [VEP012] ARC 97-747 OA538 B C M F V] V NOM: RV/L
 [VEP013] ARC 97-747 OA538 B C M F V] V NOM: RV/L
 [VEP014] ARC 97-747 OA538 B C M F V] V NOM: RV/L

ALPHA RUDDER BDLAP ELEVON REFERENCE INFORMATION
 .000 .000 .000 .000
 10.000 .000 .000 .000
 20.000 .000 .000 .000
 SCALE SCALE SCALE SCALE
 2.4210 2.4210
 14.2440 14.2440
 28.1004 28.1004
 32.3010 32.3010
 1000 1000
 2000 2000
 0.500 0.500

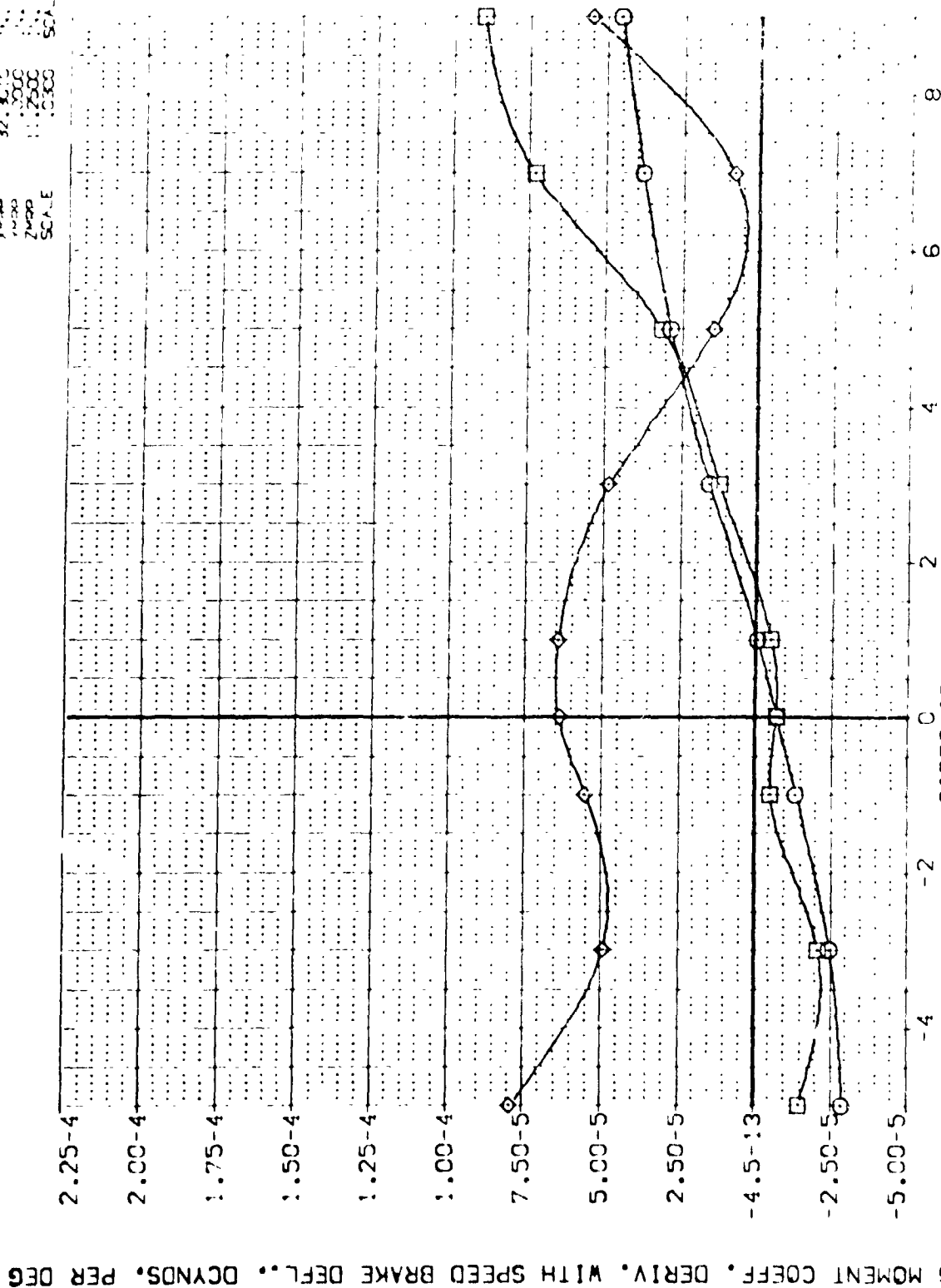


FIG. 28 SPEEDBRAKE DERIVATIVES, 55 DEGS. DEFLECT. (BASELINE = 25 DEGS.)

(3)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REF 2) ARC 97-747 D-538 B C M F V V NM NM
 (REF 3) ARC 97-747 D-538 B C M F V V NM NM
 (REF 4) ARC 97-747 D-538 B C M F V V NM NM

ALPHA RUDDER BDF LAP ELEVON
 .000 .000 .000 .000
 10.000 .000 .000 .000
 20.000 .000 .000 .000

REFERENCE INFORMATION
 SPREF 2.421C SQ.F.
 LPREF 14.244C
 BPREF 28.100C
 XMRP 32.3010
 YMRP .0000
 ZMRP 11.2500
 SCALE .0300

ROLLING MOMENT COEFF. DERIV. WITH SPEED BRAKE DEFL., DCBLDS. PER DEG

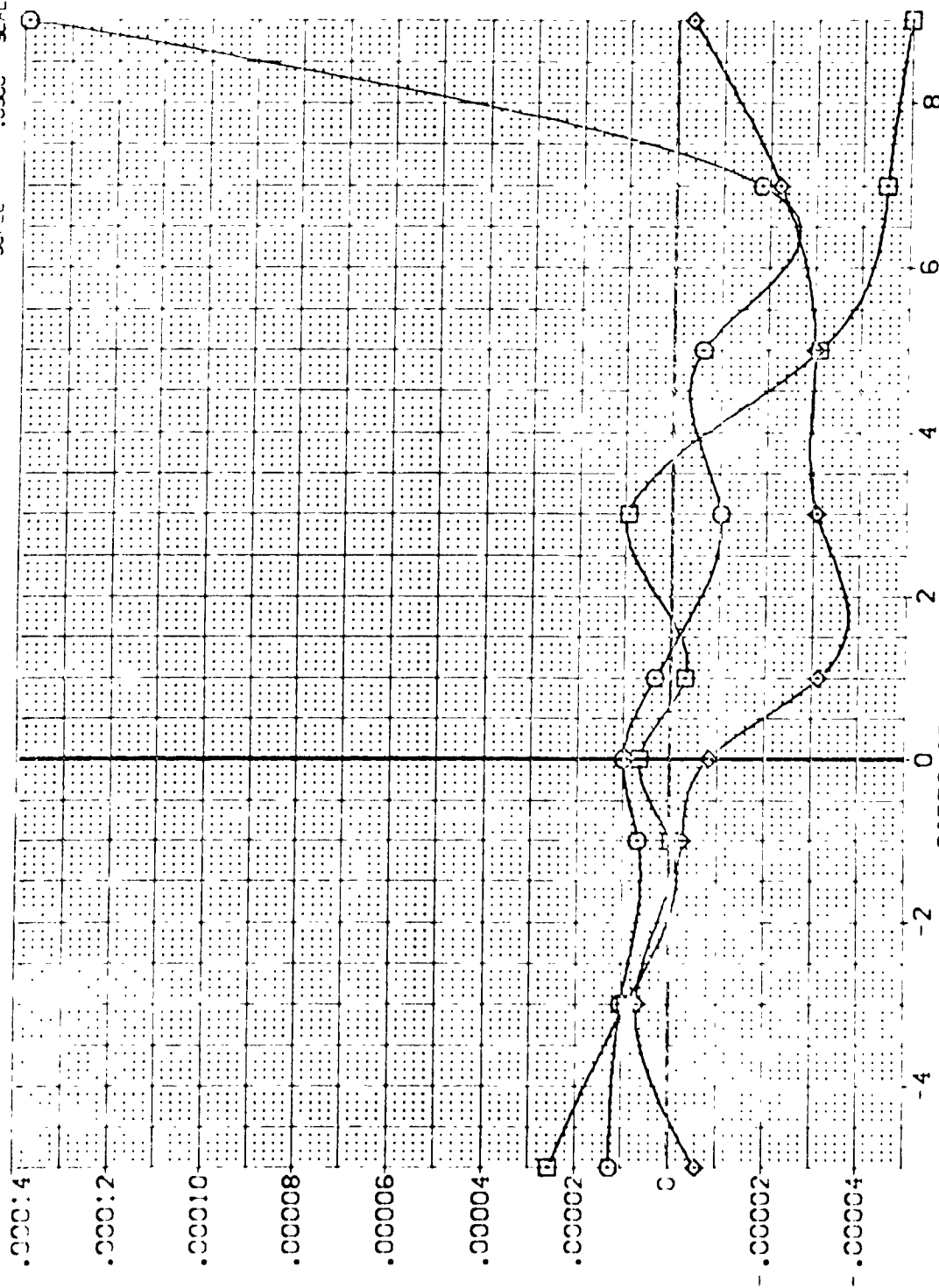


FIG. 28 SPEEDBRAKE DERIVATIVES, 55 DEGS. DEFLECT.(BASELINE = 25 DEGS.)

(A) VACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VE-012) □ ARC 97-747 DAS38 B C M F V1 V NOT RV/L
 (VE-013) ◇ ARC 97-747 DAS38 B C M F V1 V NOT RV/L
 (VE-014) ◇ ARC 97-747 DAS38 B C M F V1 V NOT RV/L

ALPHA RUDDER BOFLAP ELEVON
 .000 .000 -11.700 .000
 10.000 .000 -11.700 .000
 20.000 .000 -11.700 .000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LREF 14.2440
 BREF 28.1004
 YREF 32.3000
 ZREF 11.0000
 SCALE 1.03% SCALE

ROLLING MOMENT COEFF. DERIV. WITH SPEED BRAKE DEFL., DCBLDS. PER DEG

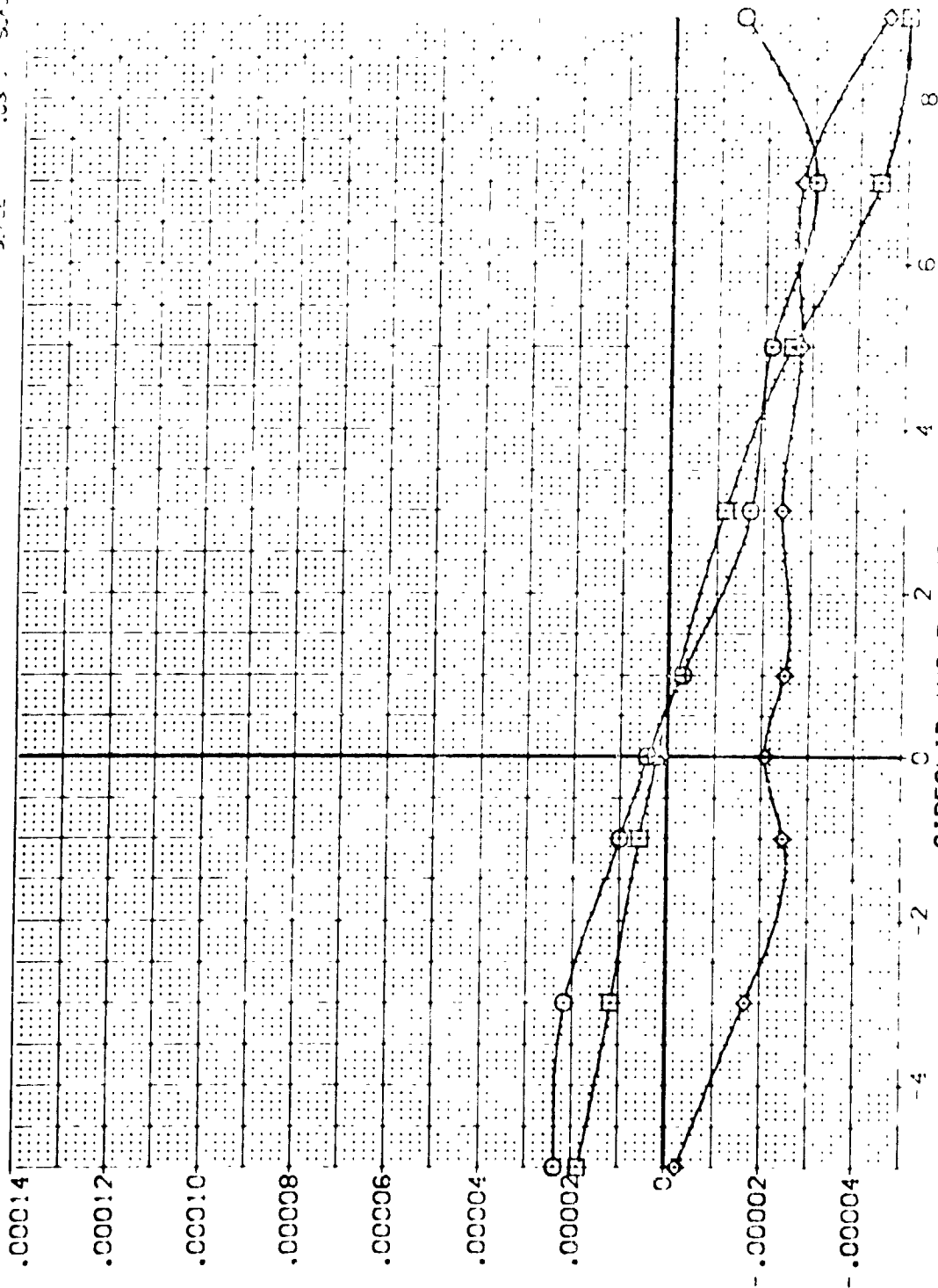


FIG. 28 SPEEDBRAKE DERIVATIVES, 55 DEGS. DEFLECT. (BASELINE = 25 DEGS.)

(B) VAO = 2.00

DATA SET S Y801 CONFIGURATION DESCRIPTION
 (1) ABC 97-747 CAS38 B C H F V V RV L
 (2) ABC 97-747 CAS38 B C H F V V RV L
 (3) ABC 97-747 CAS38 B C H F V V RV L
 (4) ABC 97-747 CAS38 B C H F V V RV L

ALPHA RUDDER ROLAP ELEVON
 .000 .000 .000 .000
 10.000 .000 .000 .000
 20.000 .000 .000 .000

REFERENCE INFORMATION
 SPEC 2.4210 SQ. FT.
 REF 14.7450
 BRP 28.1004
 XMRP 32.3000
 YMRP .0000
 ZMRP 11.7500
 SCALE .0000

PITCHING MOMENT COEFF. DERIV. WITH SPEED BRAKE DEFL., DCLMDS. PER DEG

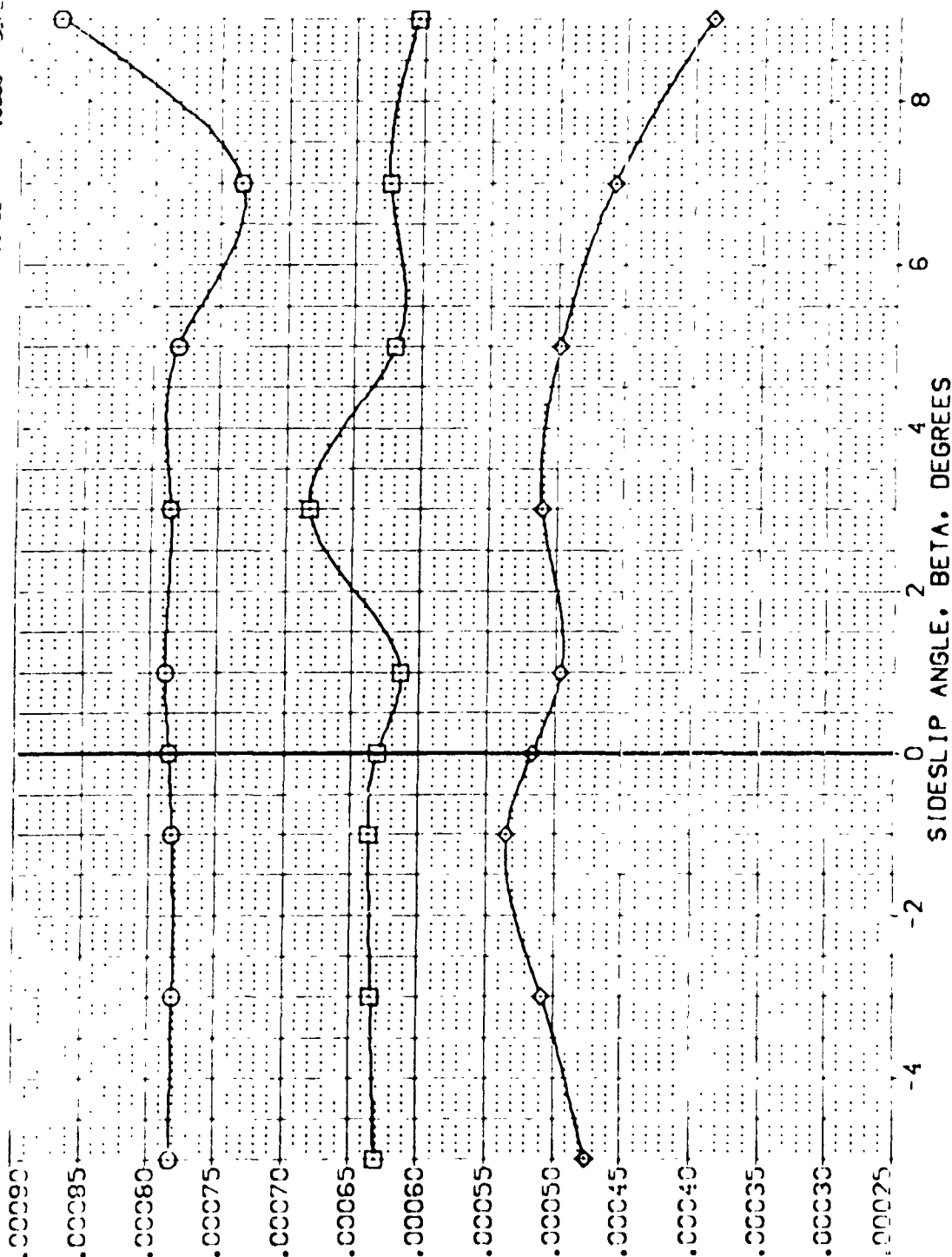


FIG. 28 SPEEDBRAKE DERIVATIVES. 55 DEGS. DEFLECT.(BASELINE = 25 DEGS.)

(A) MAC = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUGER	BFL LAP	ELEON	REFERENCE INFORMATION
W039	ACC 31-2747	000	000	11.700	000	SKE
W040	ACC 31-2747	000	000	11.700	000	24210
W041	ACC 31-2747	10.000	000	11.700	000	24240
W042	ACC 31-2747	20.000	000	11.700	000	28.000
						30.300
						YUPO
						YUPO
						11.000
						SCALE
						SCALE

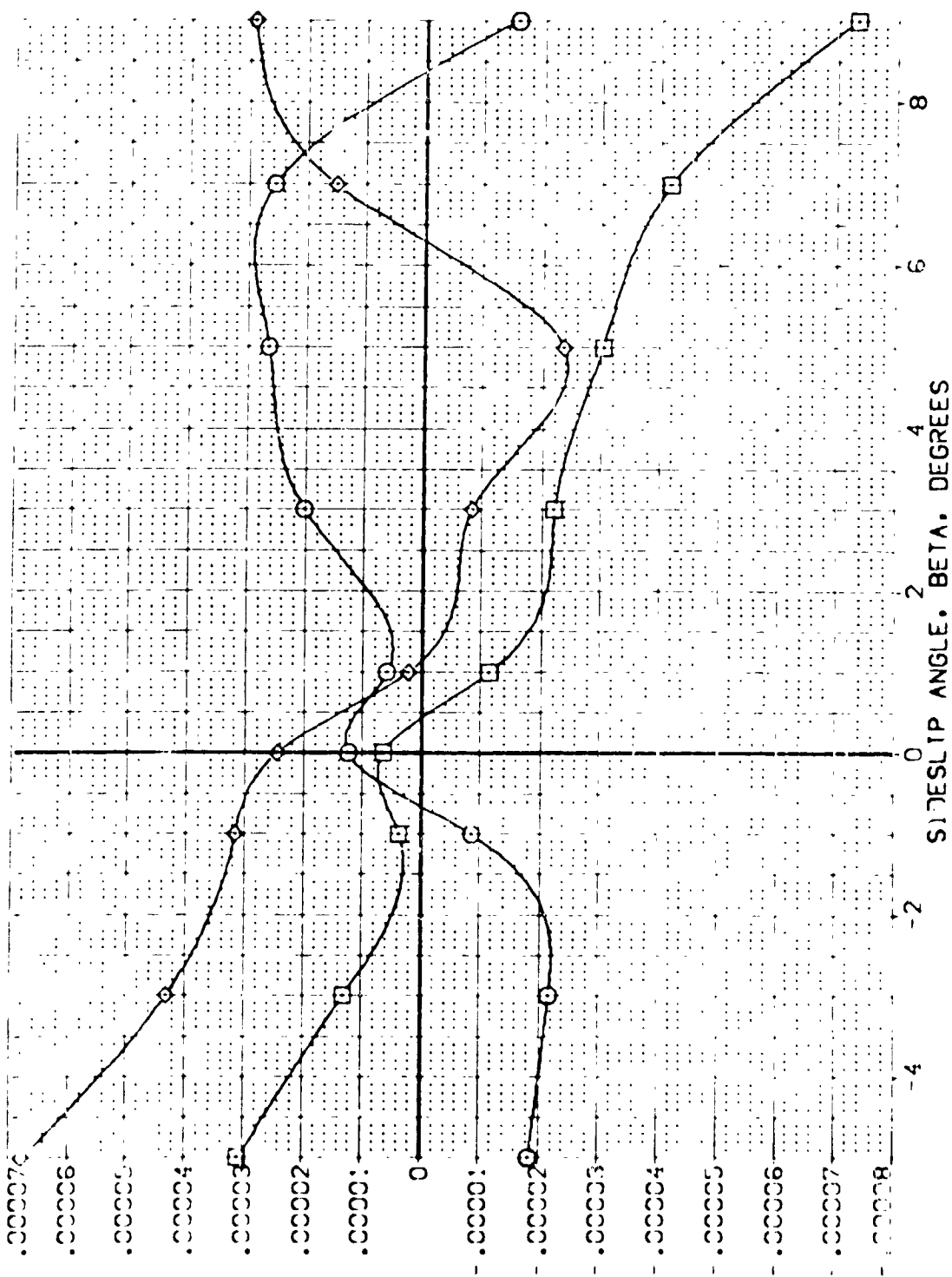


FIG. 29 SPEEDBRAKE DERIVATIVES, 85 DEGS. DEFLECT. (BASELINE = 25 DEGS.)

100-443887-100

DATA SET SYMB. CONFIGURATION DESCRIPTION

SYMB.	CONFIGURATION DESCRIPTION	ALPHA	RUDER	BOE LAR	ELEVON	REFERENCE INFORMATION
Q	ARC 97-747 OAS38 B C M F V	.000	.000	-11.700	.000	SREF 2.4210 SQ. FT.
Q	ARC 97-747 OAS38 B C M F V	10.000	.000	-11.700	.000	LREF 14.2440 SQ. FT.
Q	ARC 97-747 OAS38 B C M F V	20.000	.000	-11.700	.000	URF 28.1004 SQ. FT.
						YREF 32.3005 SQ. FT.
						YREF 11.2500 SQ. FT.
						SCALE .0000

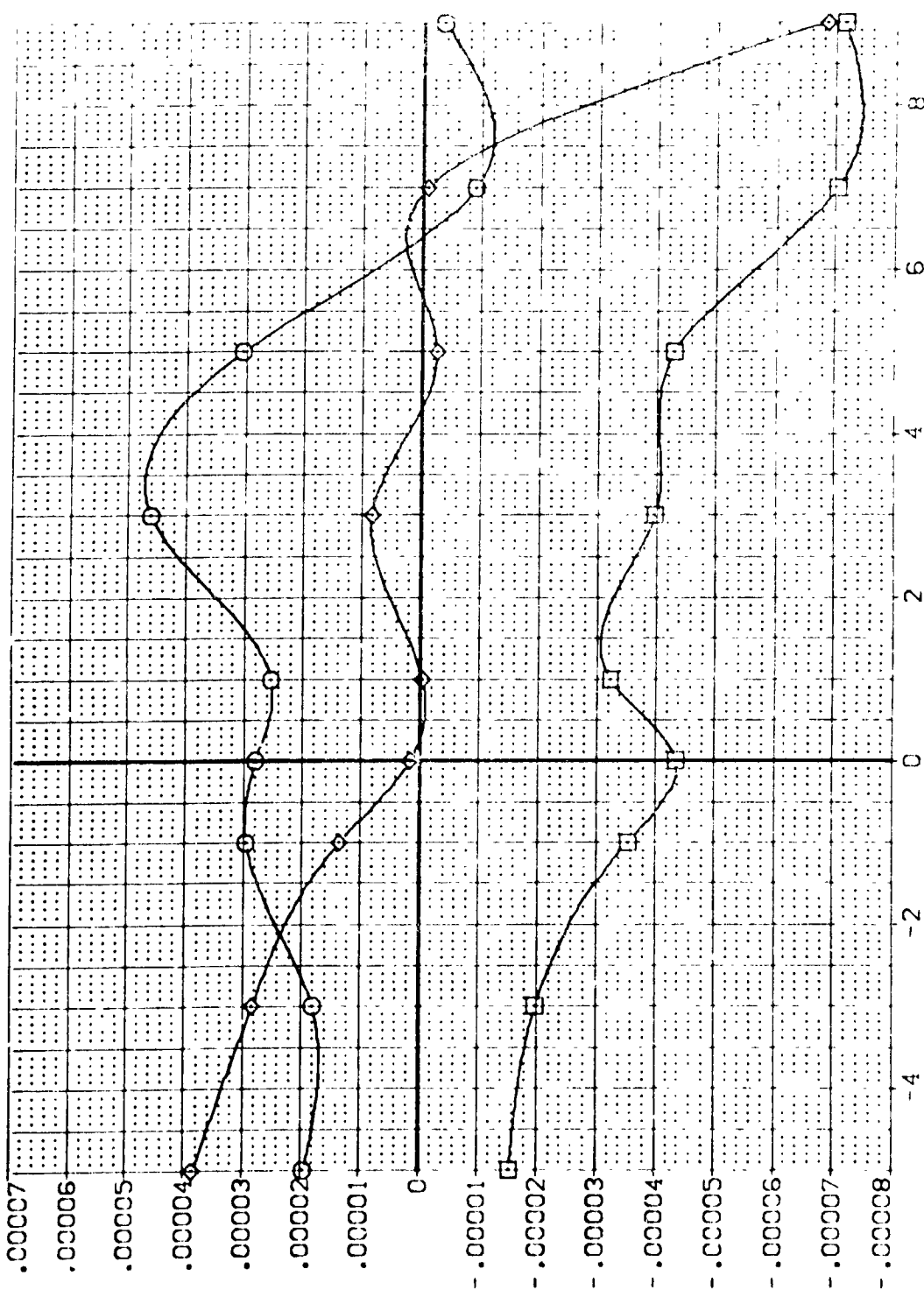


FIG. 29 SPEEDBRAKE DERIVATIVES, 85 DEGS. DEFLECT. (BASELINE = 25 DEGS.)

(B) MAC = 2.00

DATA SET SYMBOL CONFIG. T103 DESCRIPTION
 (VER 030) C ABC 97-747 04538 B C M F V Y NOM. R/V L
 (VER 040) C ABC 97-747 04538 B C M F V Y NOM. R/V L
 (VER 041) C ABC 97-747 04538 B C M F V Y NOM. R/V L

ALPHA RUDDER BOT LAP ELEVON
 .000 .000 .000
 .000 .000 .000
 .000 .000 .000

REFERENCE INFORMATION:
 SREF 2.4210 SC.F.T.
 LREF 14.2440
 BREF 28.1004
 XREF 32.3010
 YREF .0000
 ZREF 11.2500
 SCALE .0300

YAWING MOMENT COEFF. DERIV. WITH SPEED BRAKE DEFL., DCYNDS. PER DEG

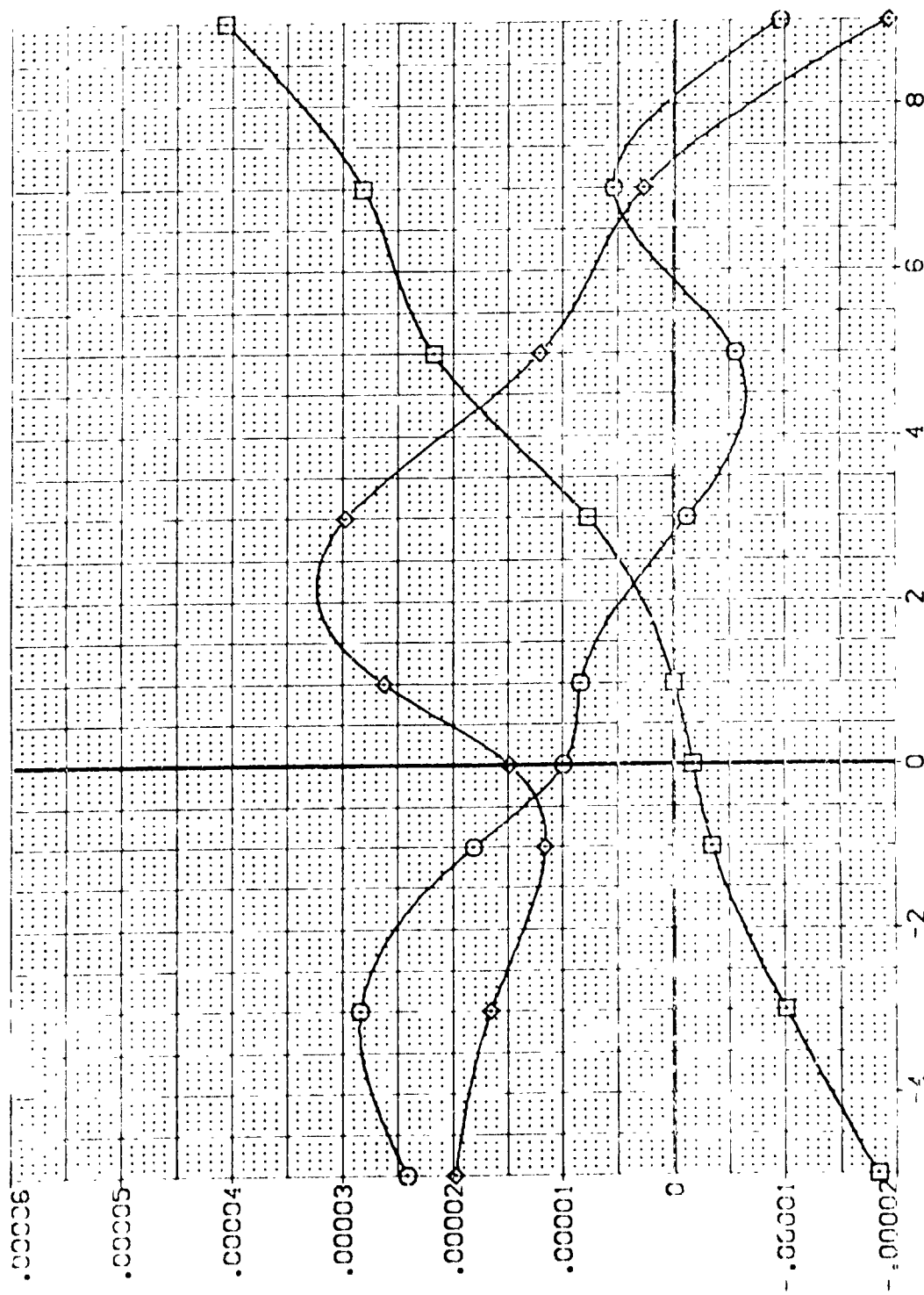


FIG. 29 SPEEDBRAKE DERIVATIVES 85 DEGS. DEFLECT.(BASELINE = 25 DEGS.)

CAMACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

ARC 97-747 04538 B C M F V Y NO- RWL
 ARC 97-747 04538 B C M F V Y NO- RWL
 ARC 97-747 04538 B C M F V Y NO- RWL

ALPHA ROLLER BOE LAP ELEVATION
 .000 .000 .000 .000
 .000 .000 .000 .000
 .000 .000 .000 .000

REFERENCE INFORMATION
 SPEED 2.4210 SCALE
 SPEED 4.2440 SCALE
 SPEED 28.1000 SCALE
 SPEED 32.3000 SCALE
 SPEED 11.2000 SCALE
 SCALE

YAWING MOMENT COEFF. DERIV. WITH SPEED BRAKE DEFL., DCYNDS. PER DEG

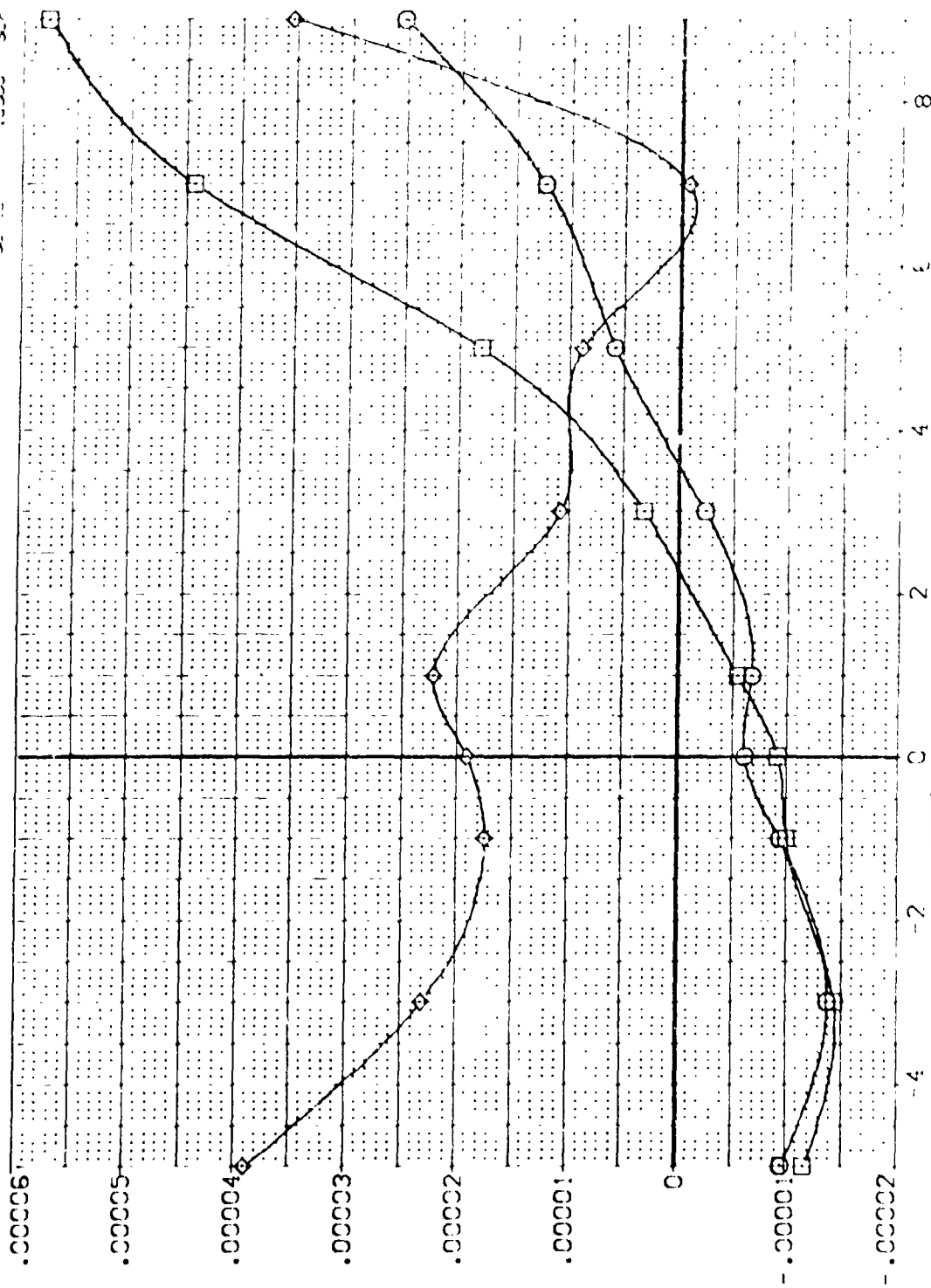


FIG. 29 SPEEDBRAKE DERIVATIVES, 85 DEGS. DEFLECT. (BASELINE = 25 DEGS.)

CRIMAC = 2.00

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION	ALPHA	RUDDER	BOE LAP	ELEVON	REFERENCE INFORMATION
VELOCITY	()	ABC 57-747	QAS38 B C M F V	.000	.000	-11.700	.000	SREF 2.4210 SQ.FT.
VELOCITY	()	ABC 57-747	QAS38 B C M F V	10.000	.000	-11.700	.000	REF 14.2440 IN.
VELOCITY	()	ABC 57-747	QAS38 B C M F V	20.000	.000	-11.700	.000	BREF 28.1004 IN.
								XMRP 32.3010 IN.
								YMRP 1.0000
								ZMRP 11.2500
								SCALE .0300

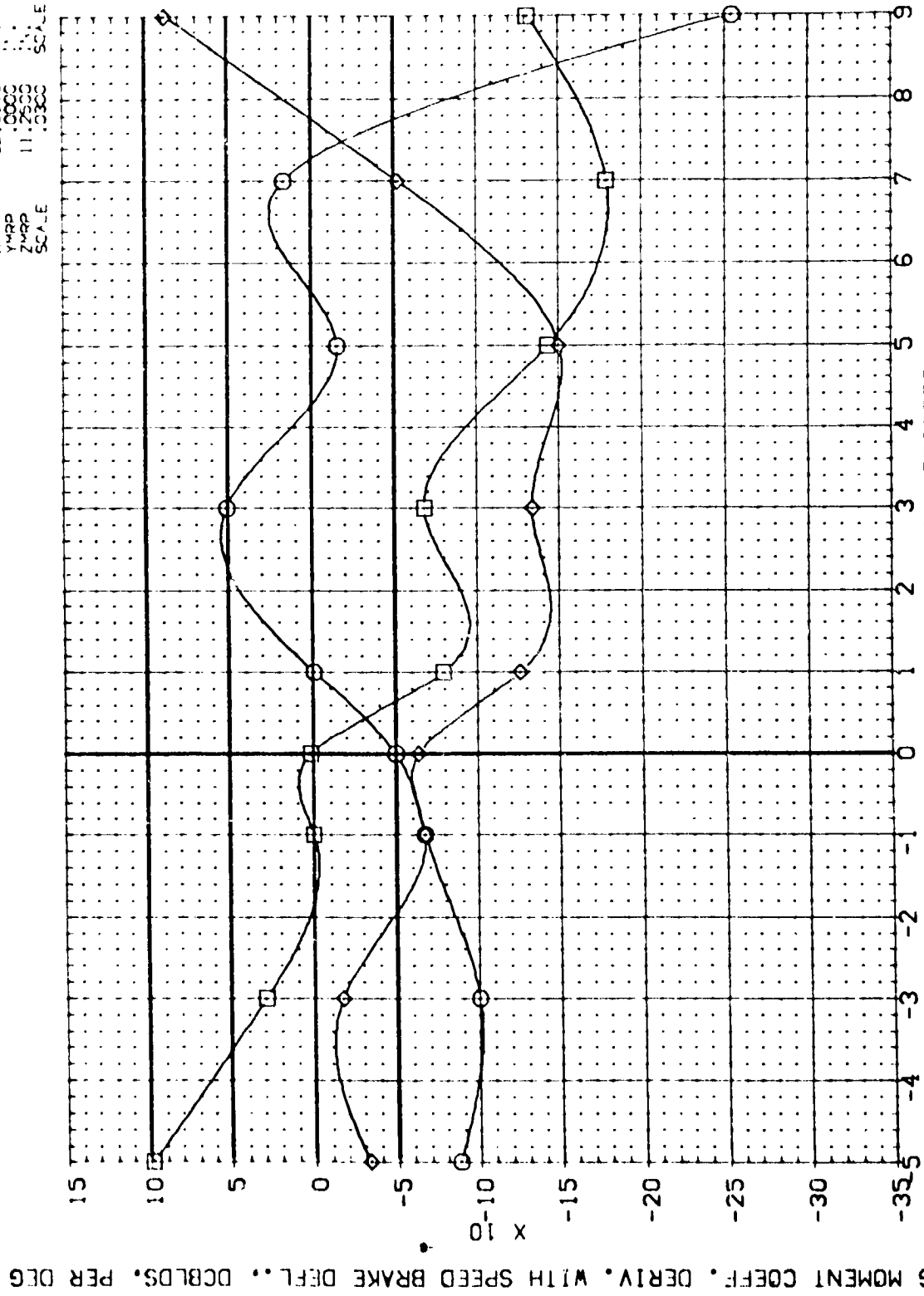


FIG. 29 SPEEDBRAKE DERIVATIVES, 85 DEGS. DEFLECT.(BASELINE = 25 DEGS.)

(A)MACH = 1.60

ROLLING MOMENT COEFF. DERIV. WITH SPEED BRAKE DEFL. DCBLDS. PER DEG

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	ELEVON	REFERENCE INFORMATION
(VEK039)	ARC 97-747 GAS38 B C M F V	0.000	0.000	-11.700	.000	SREF 2.4210
(VEK040)	ARC 97-747 GAS38 B C M F V	10.000	0.000	-11.700	.000	LREF 14.2440
(VEK041)	ARC 97-747 GAS38 B C M F V	20.000	0.000	-11.700	.000	BREF 28.0004
						XMRP 32.3010
						YMRP 11.2500
						ZMRP 11.2500
						SCALE .0300

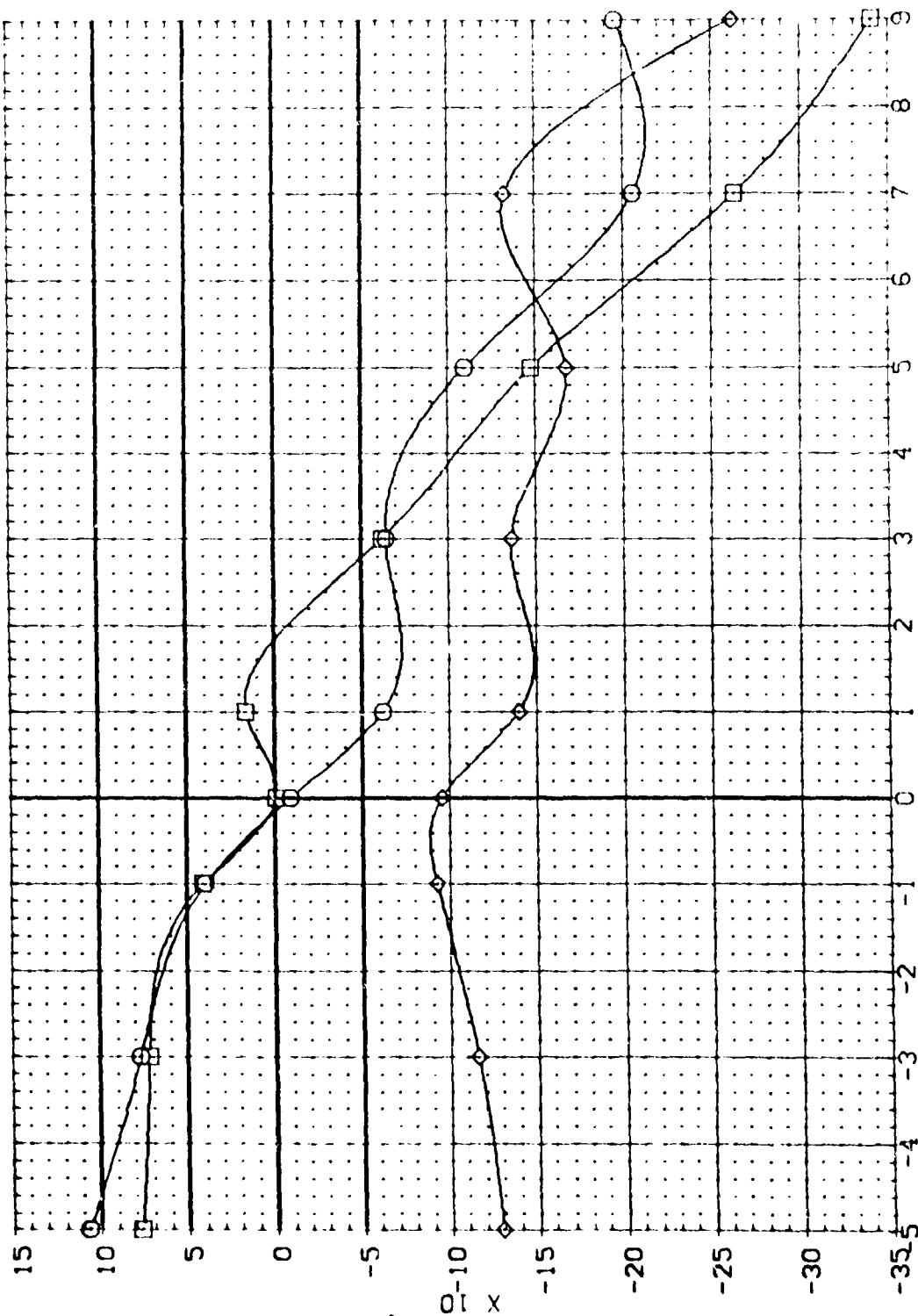


FIG. 29 SPEEDBRAKE DERIVATIVES, 85 DEGS. DEFLECT. (BASELINE = 25 DEGS.)

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	ELEVON	REFERENCE INFORMATION
ABC 57-747 34538 B C M F V	Y	0.000	0.000	-1.700	0.000	SREF 2.4210 SQ.F.
ABC 57-747 34538 B C M F V	Y	10.000	0.000	-1.700	0.000	LREF 14.2443
ABC 57-747 34538 B C M F V	Y	20.000	0.000	-1.700	0.000	BREF 28.1004
						XMRP 32.3010
						YMRP 0.0000
						ZMRP 11.2500
						SCALE 0.0000

PITCHING MOMENT COEFF. DERIV. WITH SPEED BRAKE DEFL., DCLMDS. PER DEG

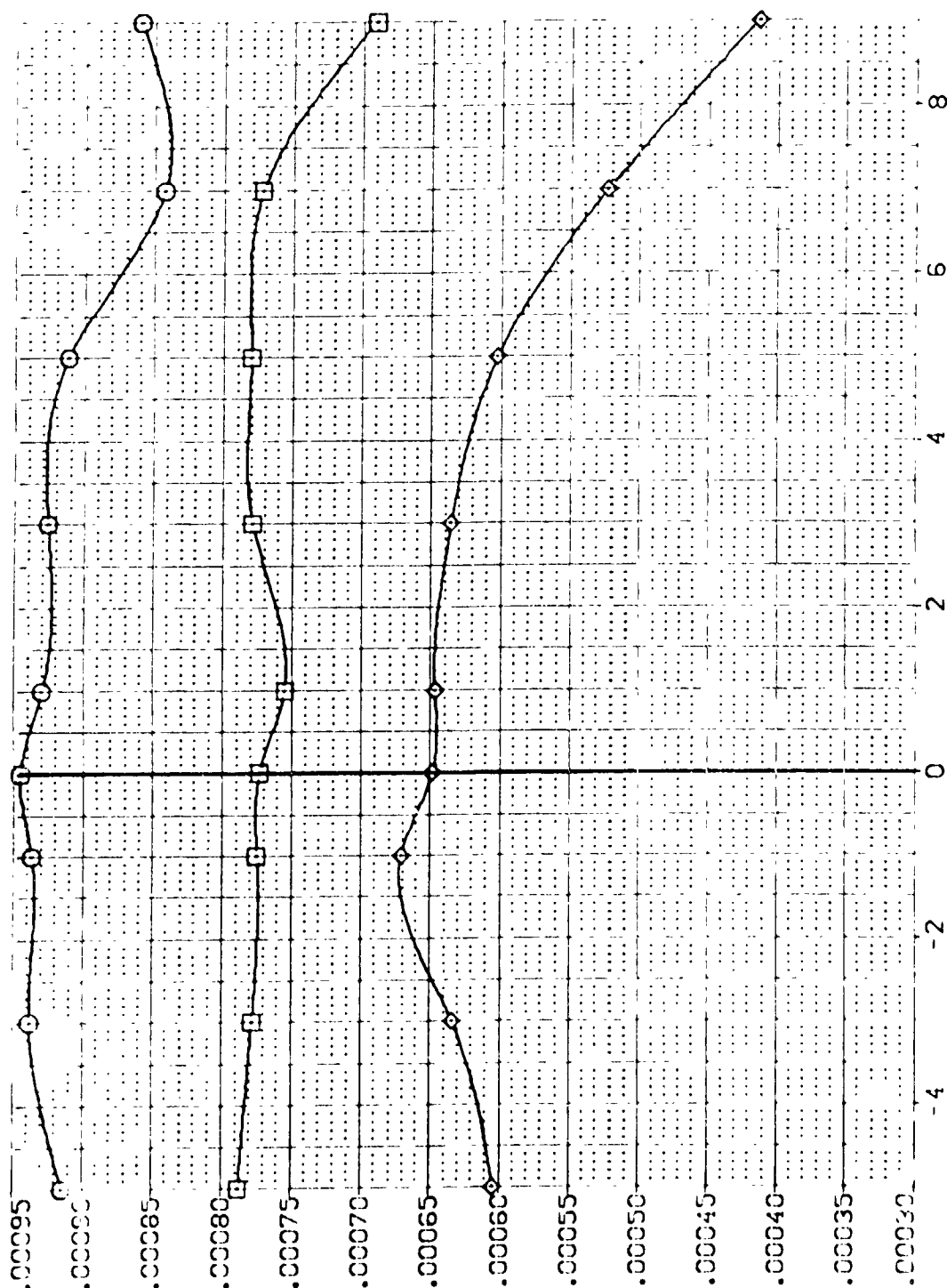


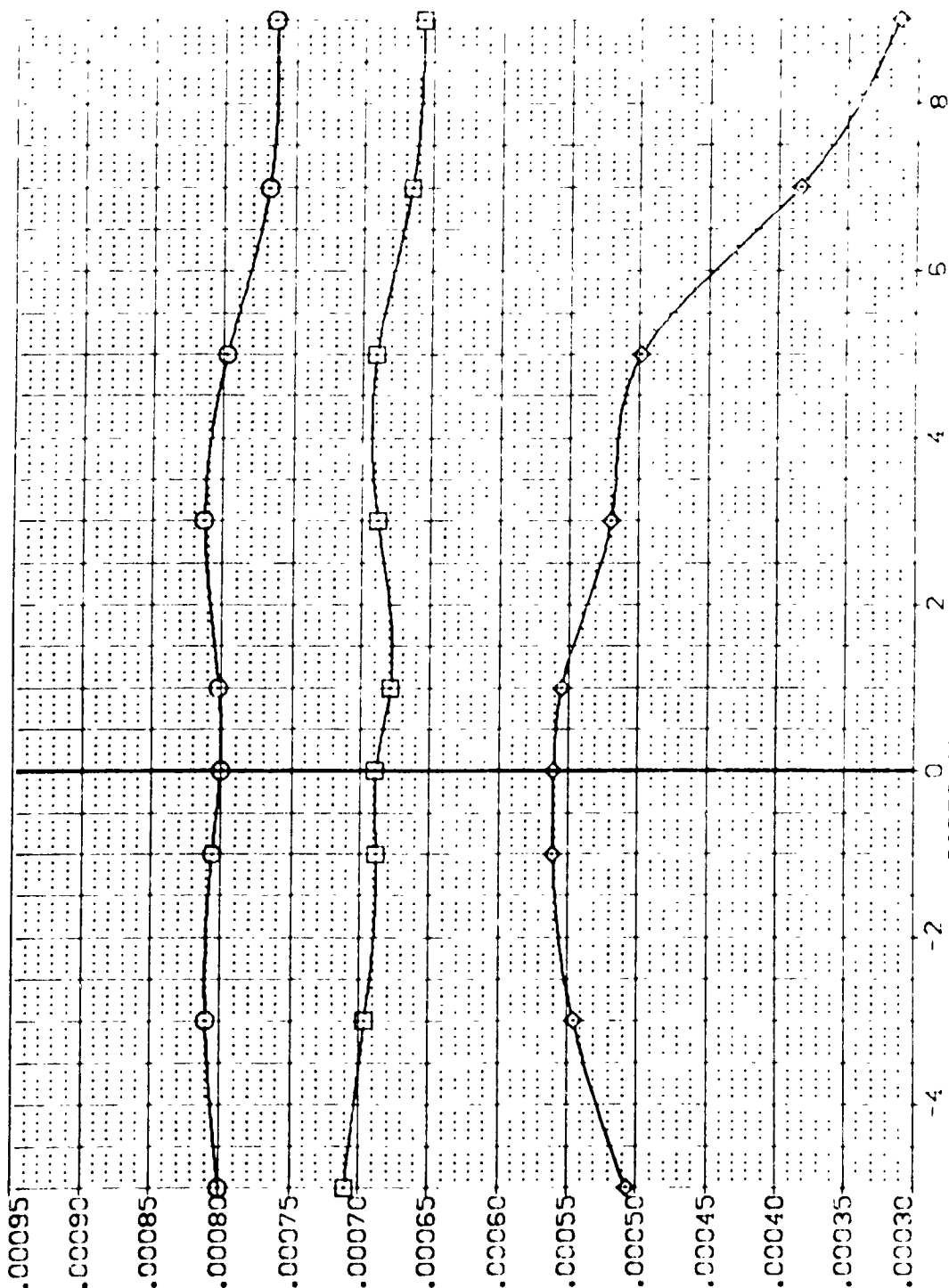
FIG. 29 SPEEDBRAKE DERIVATIVES, 85 DEGS. DEFLECT. (BASELINE = 25 DEGS.)

(A) MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	ALPHA	RUDDER	BOFLAP	ELEVON	REFERENCE INFORMATION
(VEK039)	ARC 97-747	0A538 B C M F V I V	0.000	0.000	-11.700	0.000	SREF 2.4210 SC.F.
(VEK040)	ARC 97-747	0A538 B C M F V I V	10.000	0.000	-11.700	0.000	LREF 14.2440
(VEK041)	ARC 97-747	0A538 B C M F V I V	20.000	0.000	-11.700	0.000	BREF 28.1000
							XREF 32.3000
							YREF 0.0000
							ZREF 11.7500
							SCALE 0.0000

PITCHING MOMENT COEFF. DERIV. WITH SPEED BRAKE DEFL., DCLMDS, PER DEG



SIDESLIP ANGLE, BETA, DEGREES

FIG. 29 SPEEDBRAKE DERIVATIVES, 85 DEGS. DEFLECT. (BASELINE = 25 DEGS.)

(B) VAC = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	ATTACH	BOE LAD	SPRNG	REFERENCE INFORMATION
VE-001	ABC 90-747 2-538 B C C A E F V	15.000	.000	1.700	55.000	SPSE 2.4210 SCALE
VE-002	ABC 90-747 2-538 B C C A E F V	15.000	.000	1.700	55.000	SPSE 14.2440 SCALE
VE-003	ABC 90-747 2-538 B C C A E F V	15.000	.000	1.700	55.000	SPSE 78.3000 SCALE
VE-004	ABC 90-747 2-538 B C C A E F V	15.000	.000	1.700	55.000	SPSE 52.3000 SCALE
VE-005	ABC 90-747 2-538 B C C A E F V	15.000	.000	1.700	55.000	SPSE 11.7000 SCALE

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET

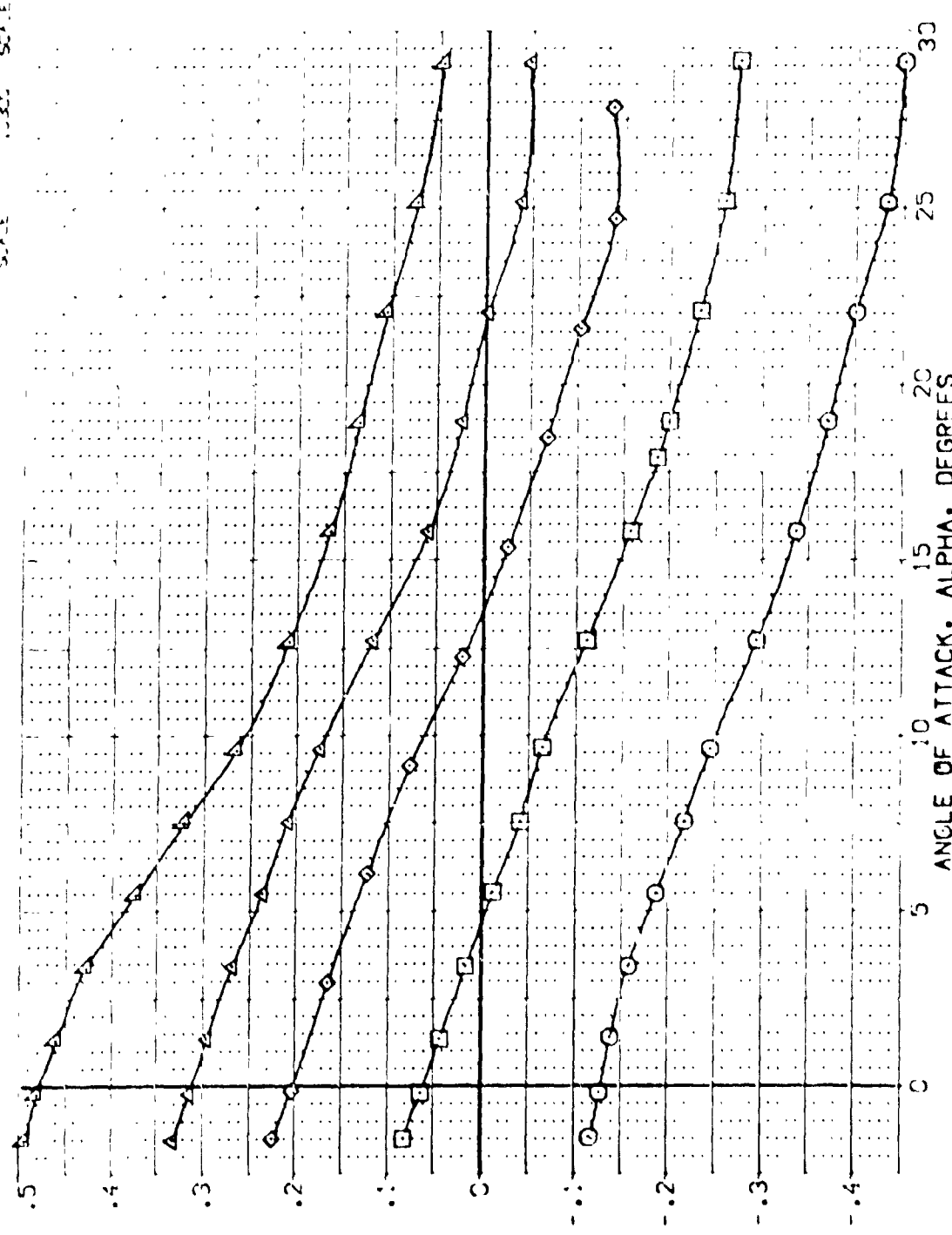
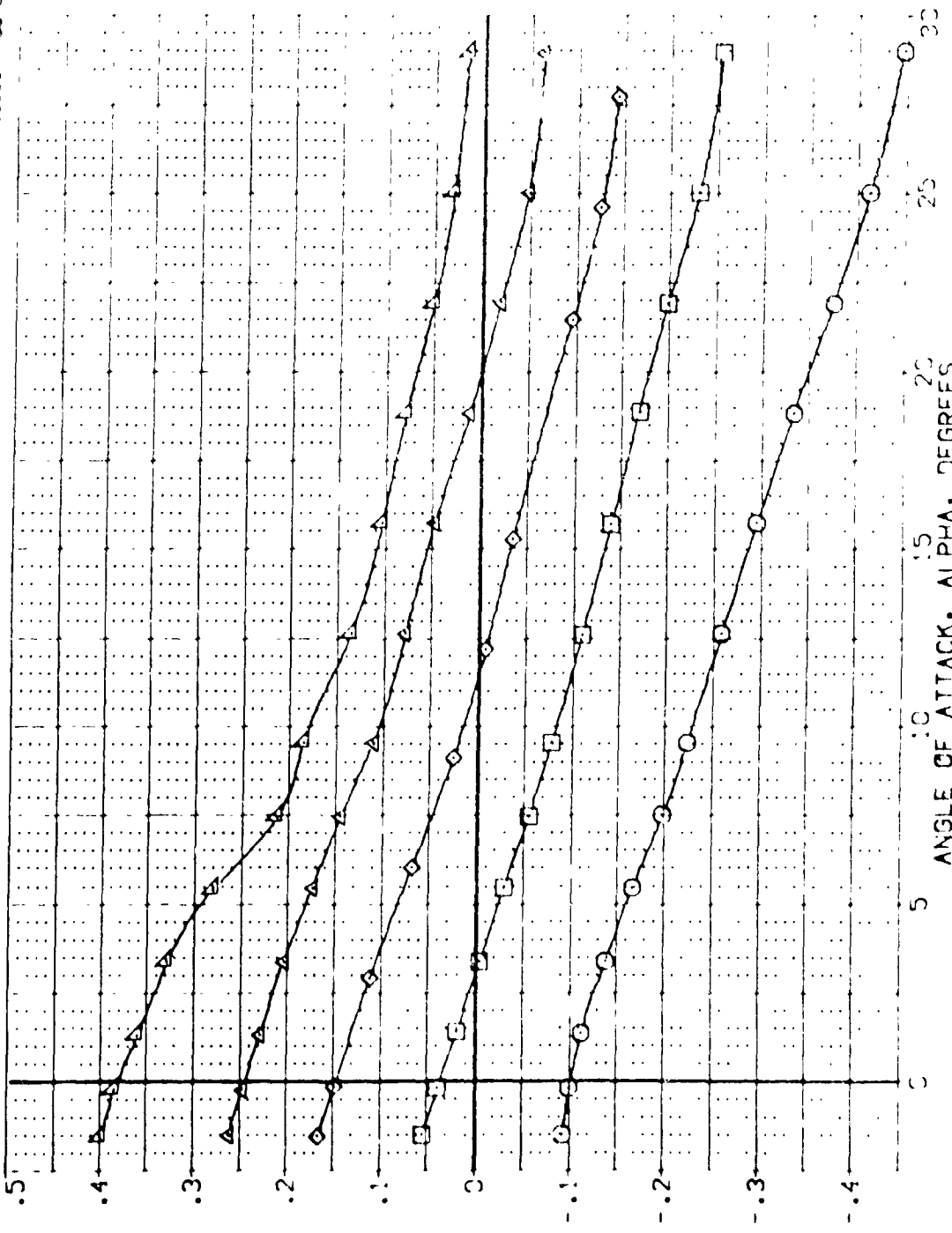


FIG. 30 ELEVON HINGE MOMENTS

SCALE = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	ALTRON	BOF LAP	SPOBPA	REFERENCE INFORMATION
VE003	APC 97-747 C-538 B C M F V	15.000	.000	1.700	55.000	SPEC 2.4210
VE001	APC 97-747 C-538 B C M F V	10.000	.000	1.700	55.000	REF 1.4240
VE002	APC 97-747 C-538 B C M F V	-10.000	.000	1.700	55.000	SPC 28.000
VE019	APC 97-747 C-538 B C M F V	-20.000	.000	1.700	55.000	SPC 32.300
VE023	APC 97-747 C-538 B C M F V	-25.000	.000	1.700	55.000	SPC 37.000
						SCALE 1.000

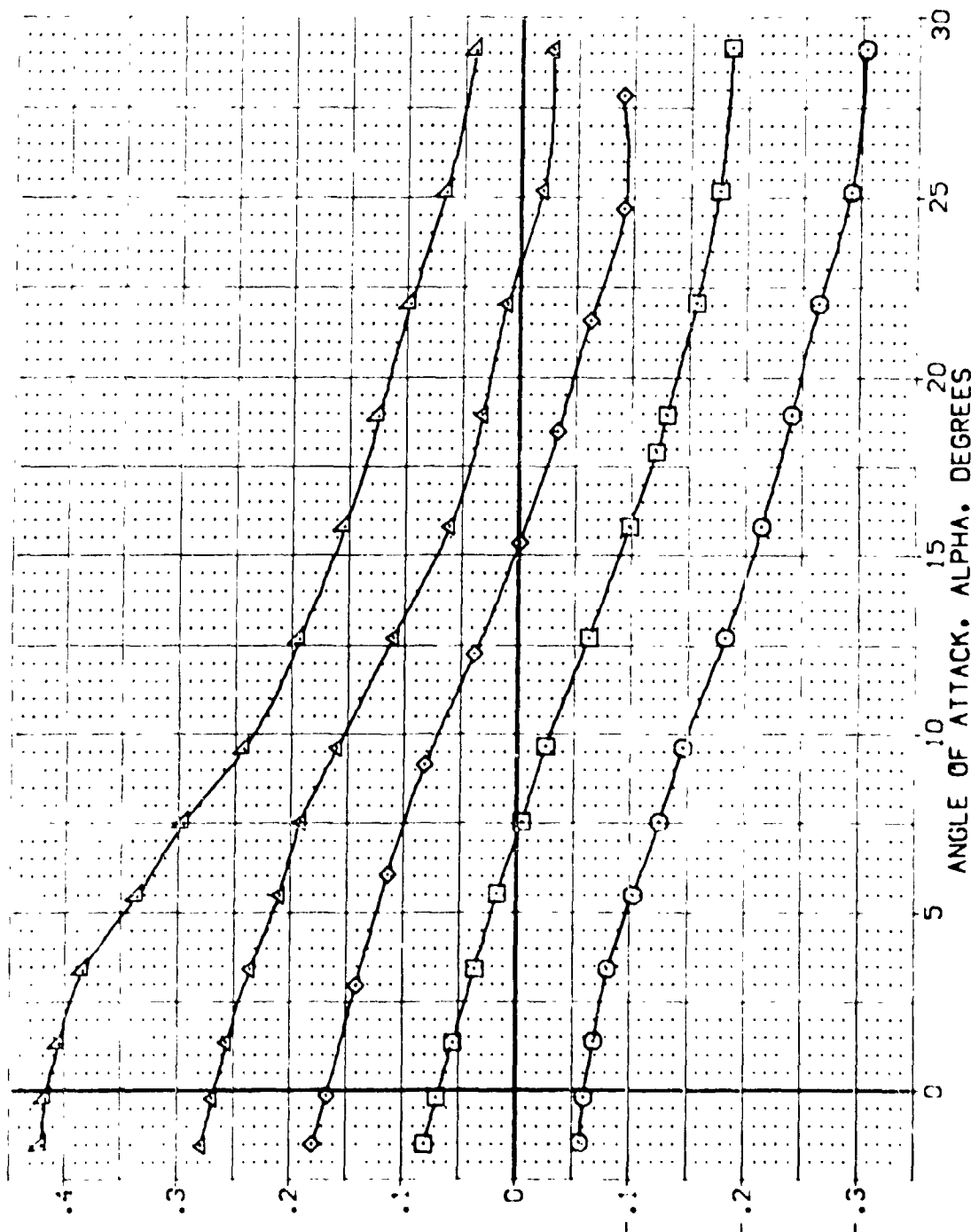


TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET

FIG. 30 ELEVON HINGE MOMENTS

CBVAC - 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	BOLAP	SPDBRK	REFERENCE INFORMATION
YES003	ABC 97-747 C-53B C M F V	15.000	.000	-11.700	55.000	SREF 2.4210
YES003	ABC 97-747 C-53B B C M F V	10.000	.000	-11.700	55.000	REF 14.2440
YES003	ABC 97-747 C-53B B C M F V	-10.000	.000	-11.700	55.000	REF 28.1004
YES003	ABC 97-747 C-53B B C M F V	-20.000	.000	-11.700	55.000	REF 32.3010
YES003	ABC 97-747 C-53B B C M F V	-20.000	.000	-11.700	55.000	REF 32.3010
						SCALE 11.2500
						SCALE 11.2500



INBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, CM EI

FIG. 30 ELEVON HINGE MOMENTS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPDRPM	REFERENCE INFORMATION
[YEP003]	ARC 97-747 CAS38 B C M F V	15.000	.000	1.700	55.000	SPR 2.4210
[YEP004]	ARC 97-747 CAS38 B C M F V	10.000	.000	1.700	55.000	PRF 14.2140
[YEP005]	ARC 97-747 CAS38 B C M F V	-10.000	.000	1.700	55.000	BRF 28.1004
[YEP006]	ARC 97-747 CAS38 B C M F V	-20.000	.000	1.700	55.000	YRDF 32.3010
[YEP007]	ARC 97-747 CAS38 B C M F V					ZRDF 11.7000
						SCALE 1.0000

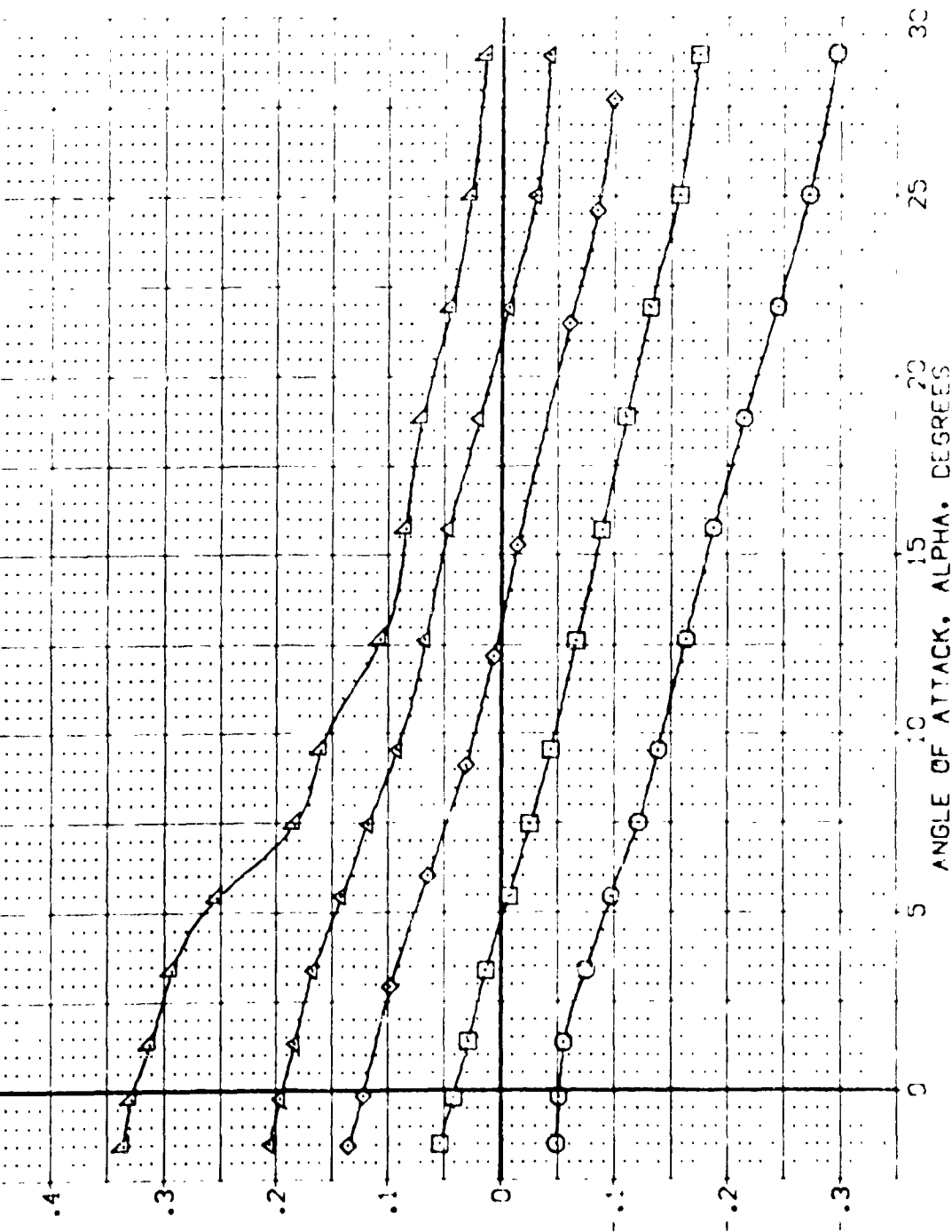


FIG. 30 ELEVON HINGE MOMENTS

(3) MAC = 2.00

ELEVON
: 5.000
10.000
20.000
20.000

L.P.S.

BOF 1, P

55.000
55.000
55.000
55.000
55.000

3365
3366
3367
3368
3369

2. 28. 32.

(0) + (0)
= 4(0)

SC. 1111

FIG. 30. 30 ELEVON HINGE MOMENTS

09:1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	ATTURON	BDF LAP	SPOBARK	REFERENCE INFORMATION
(VEK003)	ARC 97-747 DA538 B C M F V	15.000	.000	700	55.000	SREF 2.4210
(VEK004)	ARC 97-747 DA538 B C M F V	10.000	.000	700	55.000	LRPF 14.2440
(VEK005)	ARC 97-747 DA538 B C M F V	-10.000	.000	700	55.000	BRPF 28.1000
(VEK019)	ARC 97-747 DA538 B C M F V	-20.000	.000	700	55.000	XRPF 32.3000
(VEK073)	ARC 97-747 DA538 B C M F V	-20.000	.000	700	55.000	YRPF 0000
						ZRPF 0000
						SCALE 11.200
						SCALE 10.000

OUTBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, C_{HED}

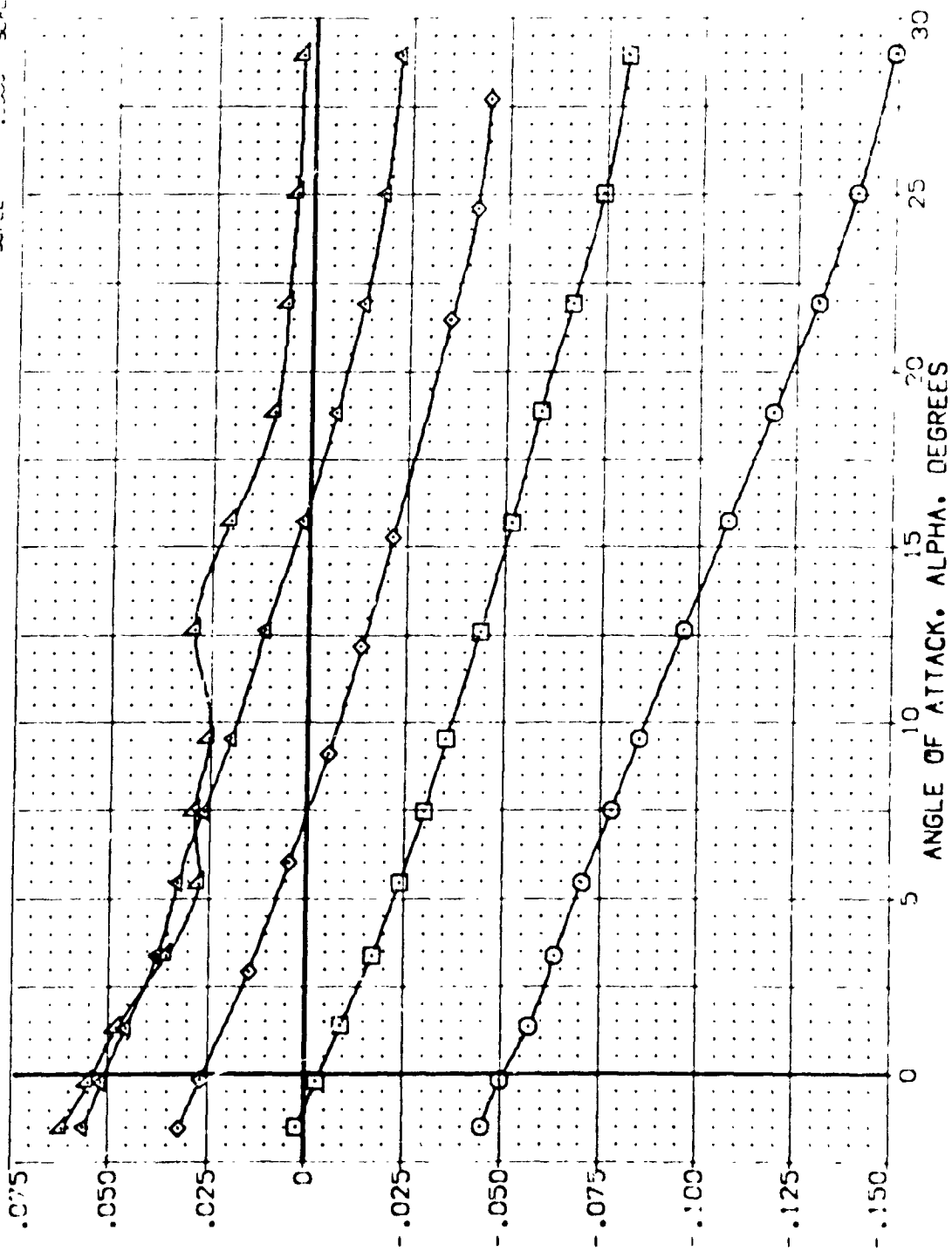
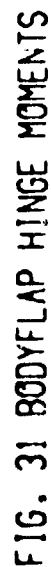


FIG. 30 ELEVON HINGE MOMENTS

(B)YAC = 2.00

BOUYFLAP HINCE MOMENT COEFFICIENT, CHBF


$$0.91 = 1.02 \times (V)$$



DATA SET SYMBOL: [YEQ010], [YEQ016], [YEQ011]
CONFIGURATION DESCRIPTION: ARC 97-747 DA538 B C M F V, ARC 97-747 DA538 B C M F V, ARC 97-747 DA538 B C M F V
ELEVON: .000, .000, .000
AILRON: .000, .000, .000
BOFLAP: 16.200, .000, -11.700
SPOBRK: 55.000, 55.000, 55.000
REFERENCE INFORMATION: 2.4210 SC.FT., 14.2445 N., 78.1004 N., 97.3010 N., 10000 N., 10000 N., 11.0300 SCALE

BODYFLAP HINGE MOMENT COEFFICIENT, CHBF

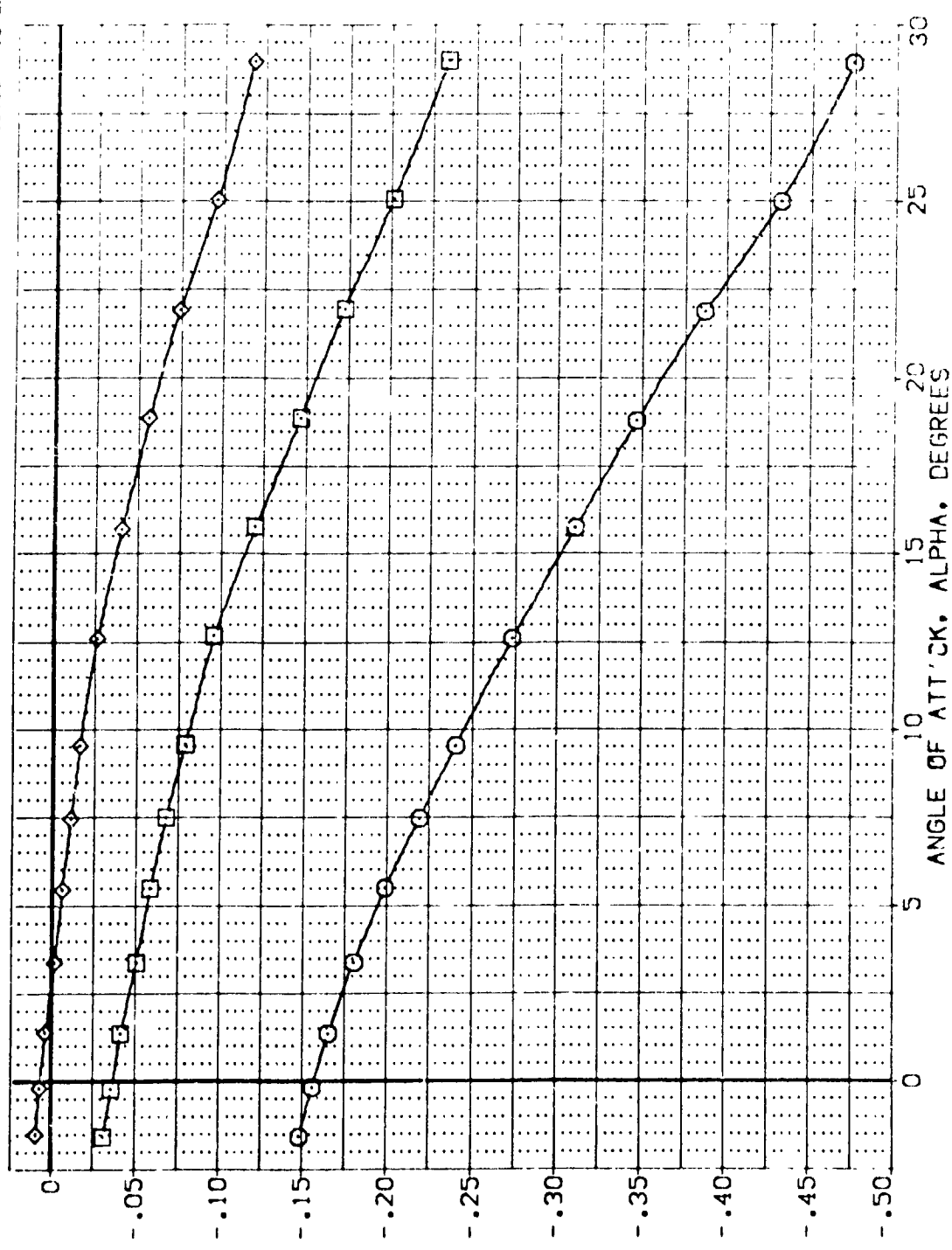
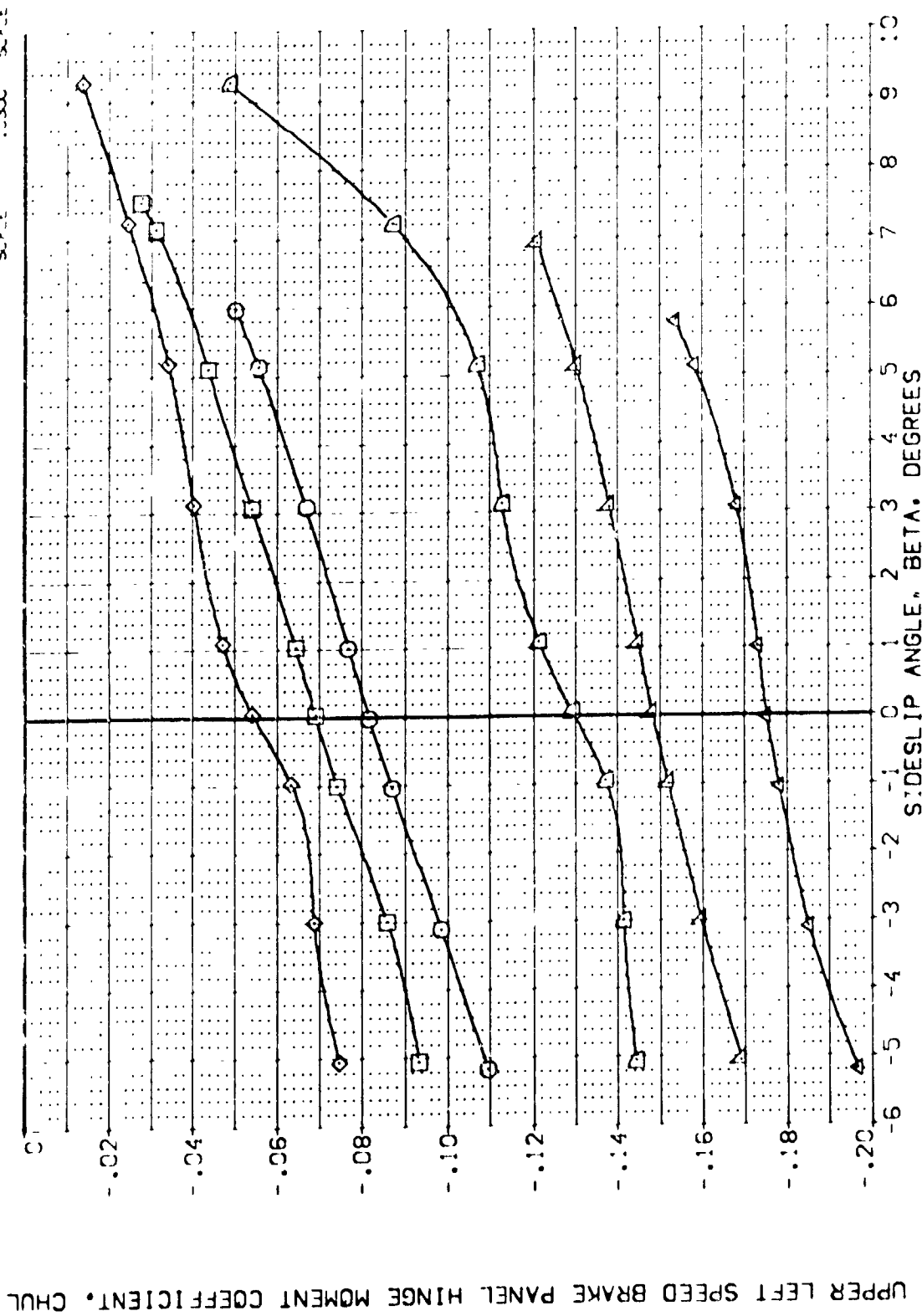


FIG. 31 BODYFLAP HINGE MOMENTS

(B)MACH = 2.00

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION	ALPHA	RUDDER	SOFLAP	SPDRM	REFERENCE INFORMATION
VE000	ABC	57-747	0-538 B	0.000	.000	-11.700	25.000	2.4213
VE001	ABC	57-747	0-538 B	10.000	.000	-11.700	25.000	14.2443
VE002	ABC	57-747	0-538 B	20.000	.000	-11.700	25.000	28.1300
VE003	ABC	57-747	0-538 B	10.000	.000	-11.700	55.000	32.3500
VE004	ABC	57-747	0-538 B	20.000	.000	-11.700	55.000	47.0000
VE005	ABC	57-747	0-538 B	10.000	.000	-11.700	75.000	51.2500
VE006	ABC	57-747	0-538 B	20.000	.000	-11.700	75.000	55.5000
VE007	ABC	57-747	0-538 B	10.000	.000	-11.700	75.000	59.7500
VE008	ABC	57-747	0-538 B	20.000	.000	-11.700	75.000	64.0000
VE009	ABC	57-747	0-538 B	10.000	.000	-11.700	75.000	68.2500
VE010	ABC	57-747	0-538 B	20.000	.000	-11.700	75.000	72.5000
VE011	ABC	57-747	0-538 B	10.000	.000	-11.700	75.000	76.7500
VE012	ABC	57-747	0-538 B	20.000	.000	-11.700	75.000	81.0000
VE013	ABC	57-747	0-538 B	10.000	.000	-11.700	75.000	85.2500
VE014	ABC	57-747	0-538 B	20.000	.000	-11.700	75.000	89.5000



CAMAC = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPODBK	REFERENCE INFORMATION
[YER025]	ARC 97-747 CAS38 B C M F V	.000	.000	-11.700	25.000	SREF 2.4210
[YER026]	ARC 97-747 CAS38 B C M F V	10.000	.000	-11.700	25.000	LRPF 14.2440
[YER027]	ARC 97-747 CAS38 B C M F V	20.000	.000	-11.700	25.000	BPFF 28.1004
[YER012]	ARC 97-747 CAS38 B C M F V	.000	.000	-11.700	55.000	VMPO 37.3000
[YER013]	ARC 97-747 CAS38 B C M F V	10.000	.000	-11.700	55.000	VMPO 37.3000
[YER014]	ARC 97-747 CAS38 B C M F V	20.000	.000	-11.700	55.000	VMPO 37.3000

UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUL

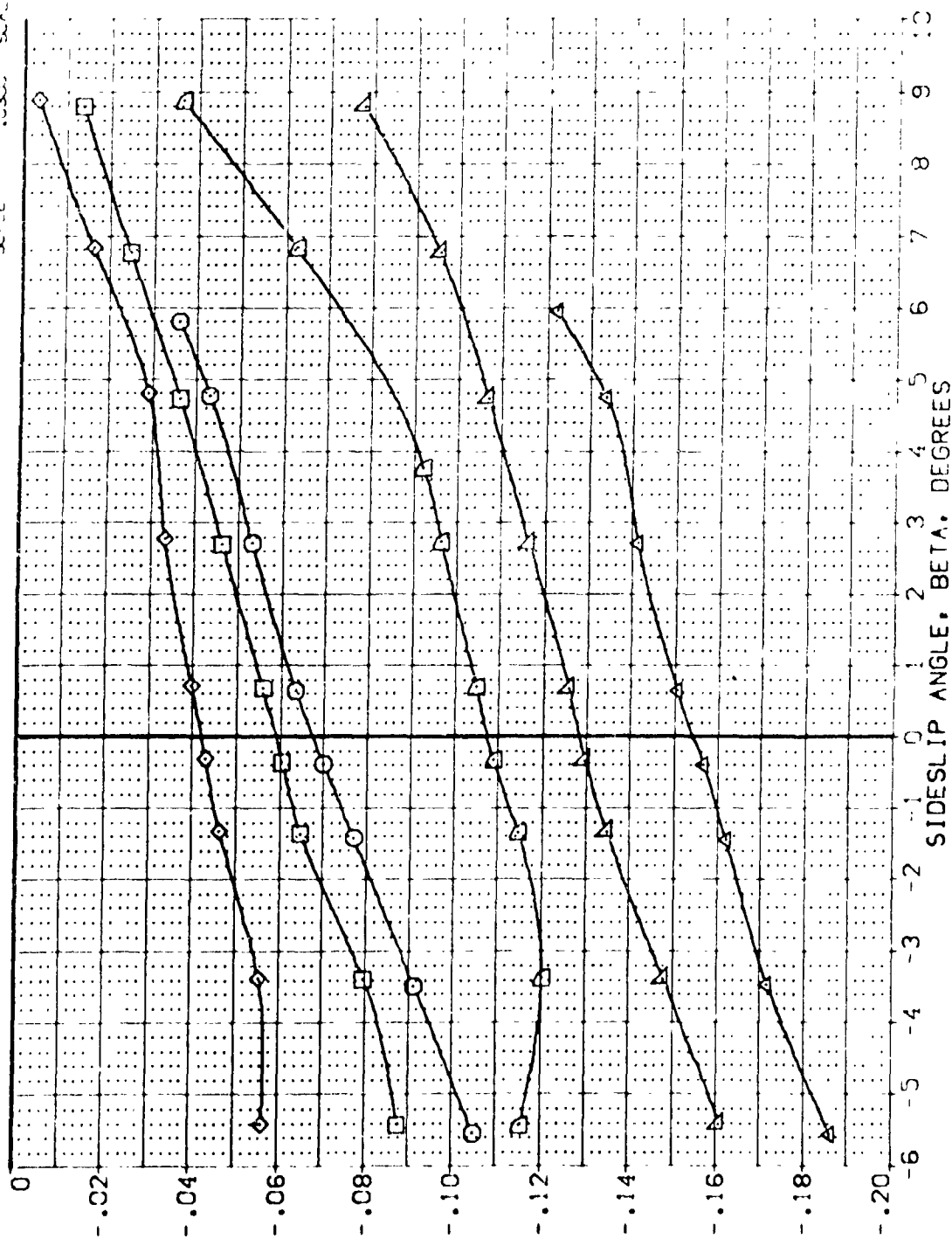


FIG. 32 RUDDER HINGE MOMENTS, 0.0 DEGREES RUDDER

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BDF LAP	SPDBRK	REFERENCE INFORMATION	SCALE
ARC 97-747 CA538 B CUCU B CUCU	M F V	.000	.000	.700	25.000	SPDBRK	2.4210
ARC 97-747 CA538 B CUCU B CUCU	M F V	.000	.000	.700	25.000	REF	14.2445
ARC 97-747 CA538 B CUCU B CUCU	M F V	.000	.000	.700	25.000	BP	28.1001
ARC 97-747 CA538 B CUCU B CUCU	M F V	.000	.000	.700	55.000	YARD	37.3010
ARC 97-747 CA538 B CUCU B CUCU	M F V	.000	.000	.700	55.000	ZARD	11.7500
ARC 97-747 CA538 B CUCU B CUCU	M F V	.000	.000	.700	55.000	SCALE	.0300

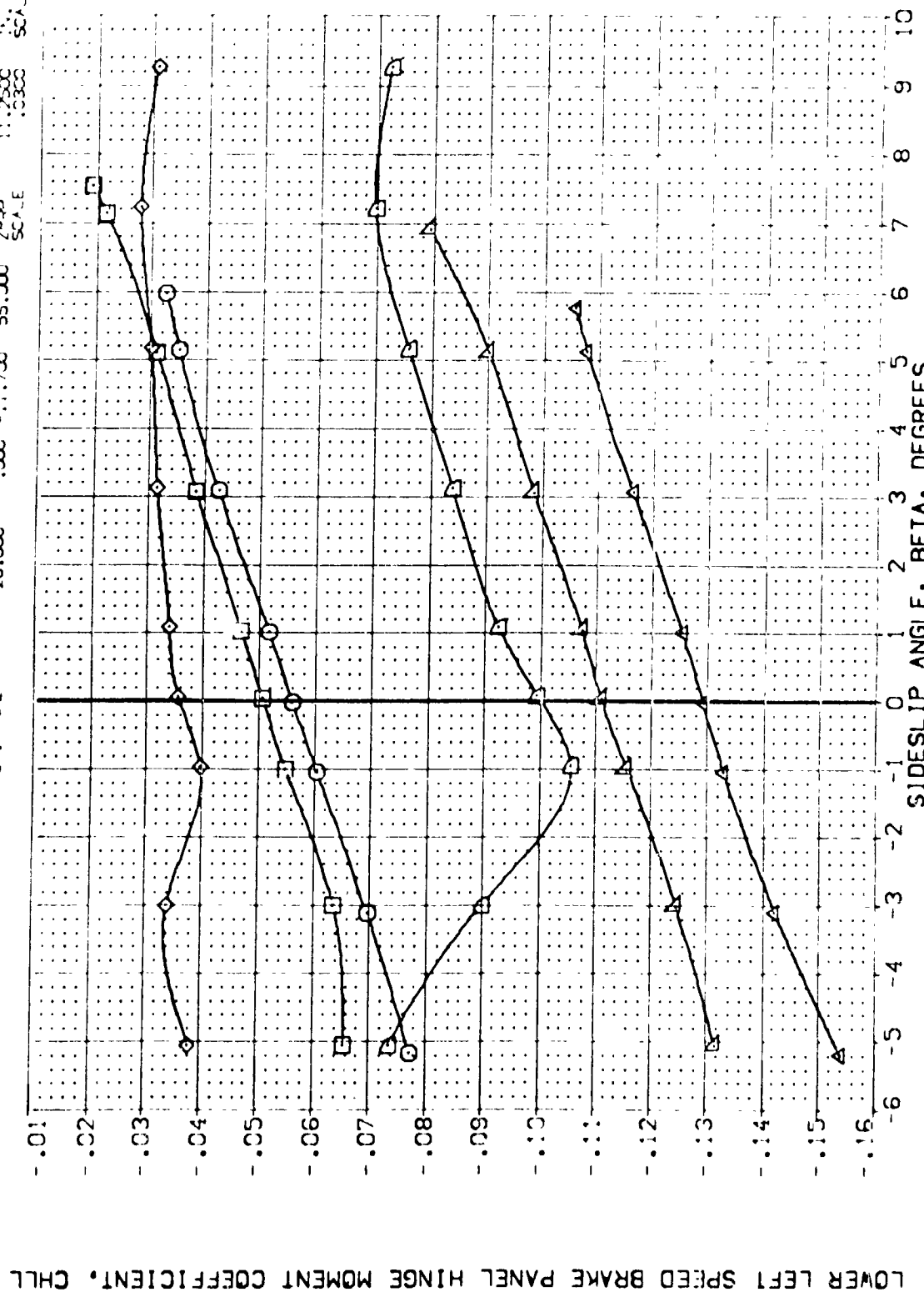


FIG. 32 RUDDER HINGE MOMENTS, 0.0 DEGREES RUDDER

(M)MACH = 1.60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOF LAP	SPEED	REFERENCE INFORMATION	SCALE
VEP025	APC 97-747	04538 B C C M F V	0.00	0.00	700	25,000	2.4215	50.00
VEP026	APC 97-747	04538 B C C M F V	10.00	0.00	700	25,000	4.2445	50.00
VEP027	APC 97-747	04538 B C C M F V	20.00	0.00	700	25,000	32.3000	50.00
VEP028	APC 97-747	04538 B C C M F V	10.00	0.00	700	25,000	2.4215	50.00
VEP029	APC 97-747	04538 B C C M F V	20.00	0.00	700	25,000	4.2445	50.00
VEP030	APC 97-747	04538 B C C M F V	10.00	0.00	700	25,000	2.4215	50.00
VEP031	APC 97-747	04538 B C C M F V	20.00	0.00	700	25,000	4.2445	50.00
VEP032	APC 97-747	04538 B C C M F V	10.00	0.00	700	25,000	2.4215	50.00
VEP033	APC 97-747	04538 B C C M F V	20.00	0.00	700	25,000	4.2445	50.00
VEP034	APC 97-747	04538 B C C M F V	10.00	0.00	700	25,000	2.4215	50.00
VEP035	APC 97-747	04538 B C C M F V	20.00	0.00	700	25,000	4.2445	50.00

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

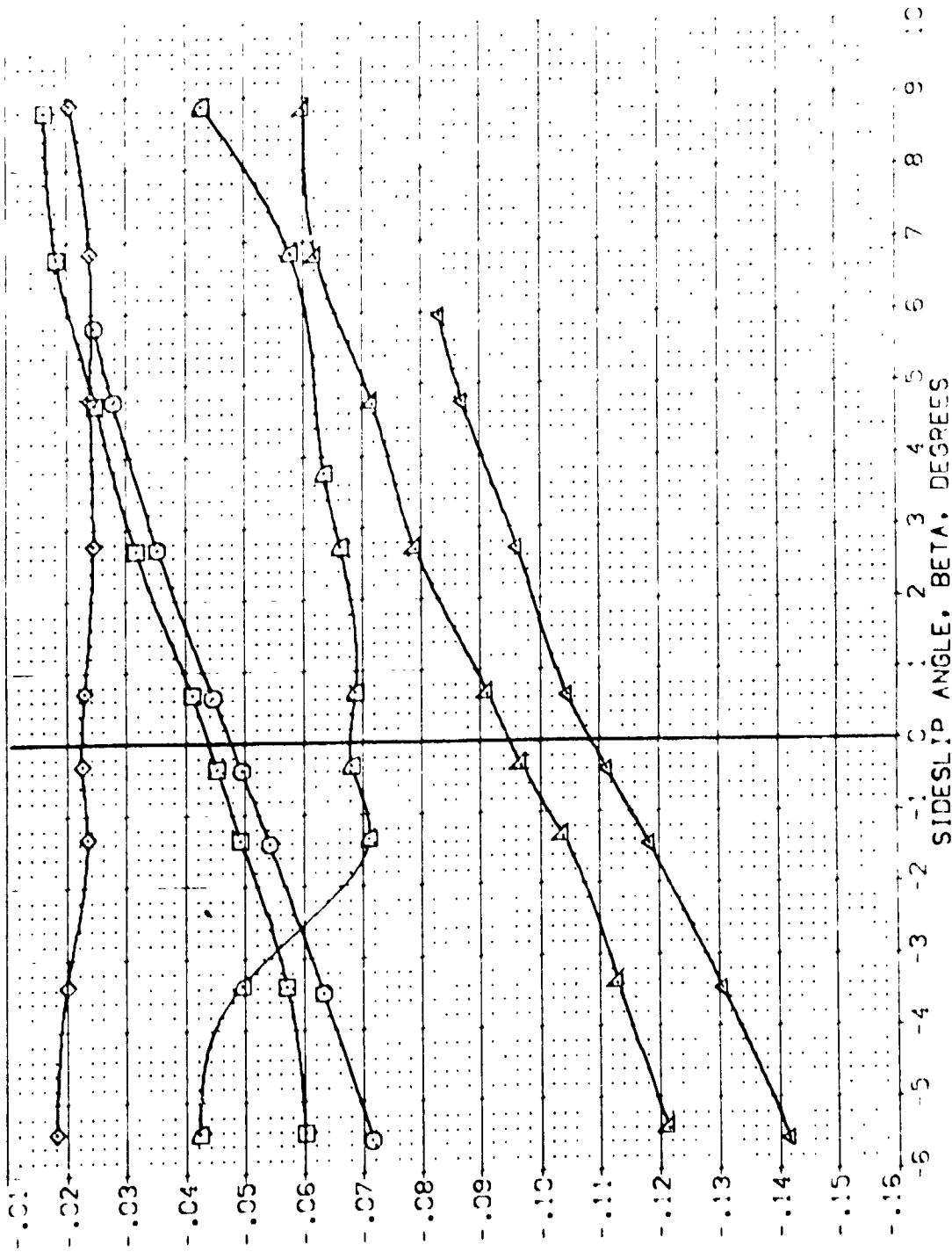


FIG. 32 RUDDER HINGE MOMENTS, 0.0 DEGREES RUDDER

(3) 1/2" = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOGSLAP	SPDRBK	REFERENCE INFORMATION	SCALE
VEP025	APC 97-747 04538 B C M F V	0.00	.000	-.700	25.000	SPREF 2.4210	SC.F.
VEP026	APC 97-747 04538 B C M F V	10.000	.000	-.700	25.000	LRPF 14.2440	
VEP027	APC 97-747 04538 B C M F V	20.000	.000	-.700	25.000	BPREF 28.1000	
VEP012	APC 97-747 04538 B C M F V	10.000	.000	-.700	33.000	LRPF 14.2440	
VEP013	APC 97-747 04538 B C M F V	10.000	.000	-.700	33.000	BPREF 28.1000	
VEP014	APC 97-747 04538 B C M F V	20.000	.000	-.700	55.000	LRPF 14.2440	
						ZURP 11.2500	SCALE

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

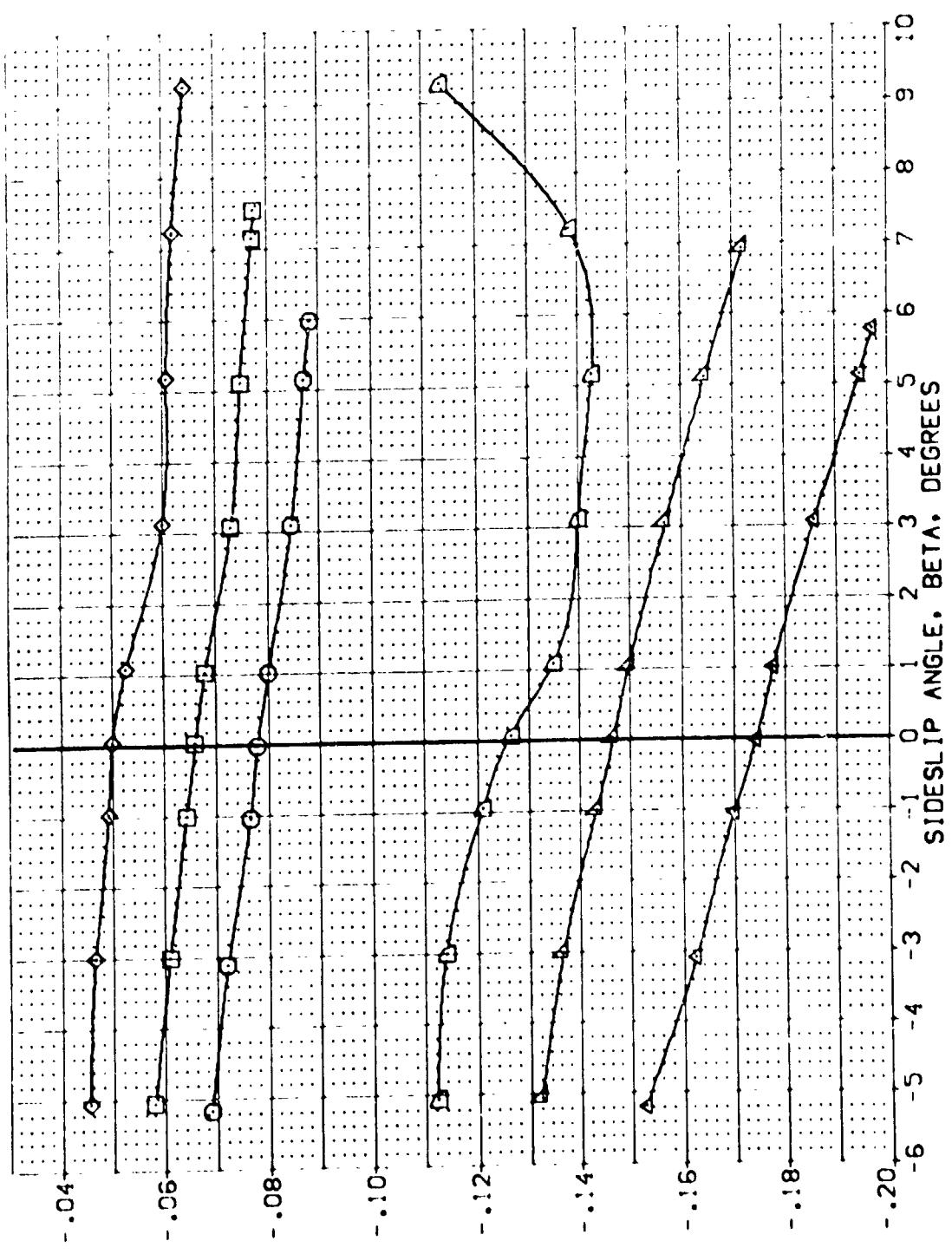


FIG. 32 RUDDER HINGE MOMENTS, 0.0 DEGREES RUDDER

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOF AP	SPDRM	REFERENCE INFORMATION
YEC029	ABC 97-747 C4538 B C M F V	0.00	.000	700	25.000	SPEED 2.4210
YEC026	ABC 97-747 C4538 B C M F V	10.000	.000	700	25.000	REF 1.2410
YEC027	ABC 97-747 C4538 B C M F V	20.000	.000	700	25.000	REF 2.4210
YEC012	ABC 97-747 C4538 B C M F V	10.000	.000	700	25.000	REF 2.4210
YEC013	ABC 97-747 C4538 B C M F V	10.000	.000	700	25.000	REF 2.4210
YEC014	ABC 97-747 C4538 B C M F V	20.000	.000	700	25.000	REF 2.4210

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

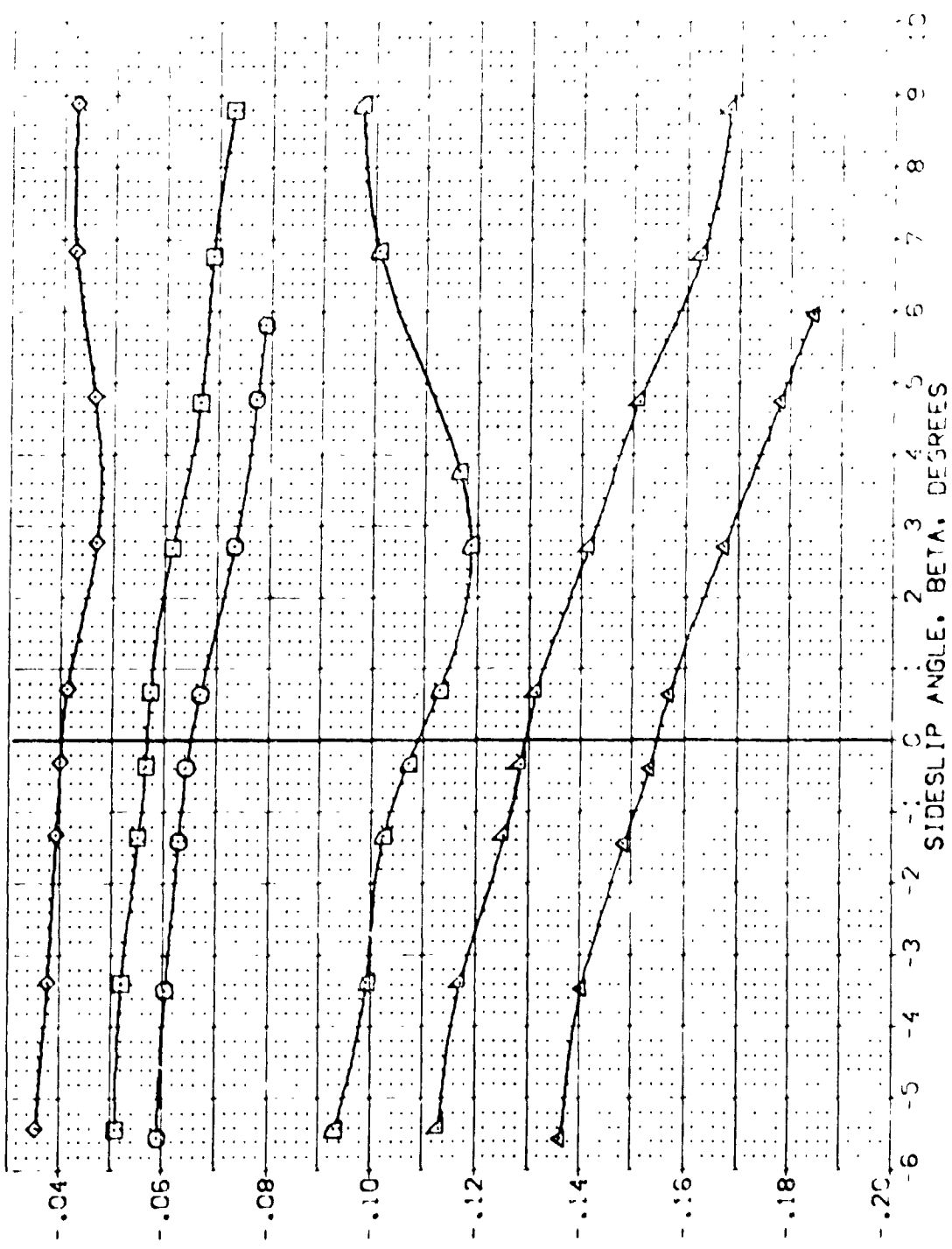


FIG. 32 RUDDER HINGE MOMENTS, 0.0 DEGREES RUDDER

(3)MAC = 2.00

DATA SET	SYMBOL	COEFFICIENT	POSITION	ALPHA	RUDDER	EDF UP	SPD	SCALE	REFERENCE INFORMATION
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12	12	12
13	13	13	13	13	13	13	13	13	13
14	14	14	14	14	14	14	14	14	14
15	15	15	15	15	15	15	15	15	15
16	16	16	16	16	16	16	16	16	16
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19	19	19	19	19	19	19	19	19	19
20	20	20	20	20	20	20	20	20	20
21	21	21	21	21	21	21	21	21	21
22	22	22	22	22	22	22	22	22	22
23	23	23	23	23	23	23	23	23	23
24	24	24	24	24	24	24	24	24	24
25	25	25	25	25	25	25	25	25	25
26	26	26	26	26	26	26	26	26	26
27	27	27	27	27	27	27	27	27	27
28	28	28	28	28	28	28	28	28	28
29	29	29	29	29	29	29	29	29	29
30	30	30	30	30	30	30	30	30	30
31	31	31	31	31	31	31	31	31	31
32	32	32	32	32	32	32	32	32	32
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41	41	41	41	41	41	41	41	41	41
42	42	42	42	42	42	42	42	42	42
43	43	43	43	43	43	43	43	43	43
44	44	44	44	44	44	44	44	44	44
45	45	45	45	45	45	45	45	45	45
46	46	46	46	46	46	46	46	46	46
47	47	47	47	47	47	47	47	47	47
48	48	48	48	48	48	48	48	48	48
49	49	49	49	49	49	49	49	49	49
50	50	50	50	50	50	50	50	50	50
51	51	51	51	51	51	51	51	51	51
52	52	52	52	52	52	52	52	52	52
53	53	53	53	53	53	53	53	53	53
54	54	54	54	54	54	54	54	54	54
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56	56	56	56	56	56	56	56	56	56
57	57	57	57	57	57	57	57	57	57
58	58	58	58	58	58	58	58	58	58
59	59	59	59	59	59	59	59	59	59
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62	62	62	62	62	62	62	62	62	62
63	63	63	63	63	63	63	63	63	63
64	64	64	64	64	64	64	64	64	64
65	65	65	65	65	65	65	65	65	65
66	66	66	66	66	66	66	66	66	66
67	67	67	67	67	67	67	67	67	67
68	68	68	68	68	68	68	68	68	68
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73	73	73	73	73	73	73	73	73	73
74	74	74	74	74	74	74	74	74	74
75	75	75	75	75	75	75	75	75	75
76	76	76	76	76	76	76	76	76	76
77	77	77	77	77	77	77	77	77	77
78	78	78	78	78	78	78	78	78	78
79	79	79	79	79	79	79	79	79	79
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81	81	81	81	81	81	81	81	81	81
82	82	82	82	82	82	82	82	82	82
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85	85	85	85	85	85	85	85	85	85
86	86	86	86	86	86	86	86	86	86
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88	88	88	88	88	88	88	88	88	88
89	89	89	89	89	89	89	89	89	89
90	90	90	90	90	90	90	90	90	90
91	91	91	91	91	91	91	91	91	91
92	92	92	92	92	92	92	92	92	92
93	93	93	93	93	93	93	93	93	93
94	94	94	94	94	94	94	94	94	94
95	95	95	95	95	95	95	95	95	95
96	96	96	96	96	96	96	96	96	96
97	97	97	97	97	97	97	97	97	97
98	98	98	98	98	98	98	98	98	98
99	99	99	99	99	99	99	99	99	99
100	100	100	100	100	100	100	100	100	100

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, C_{LM}

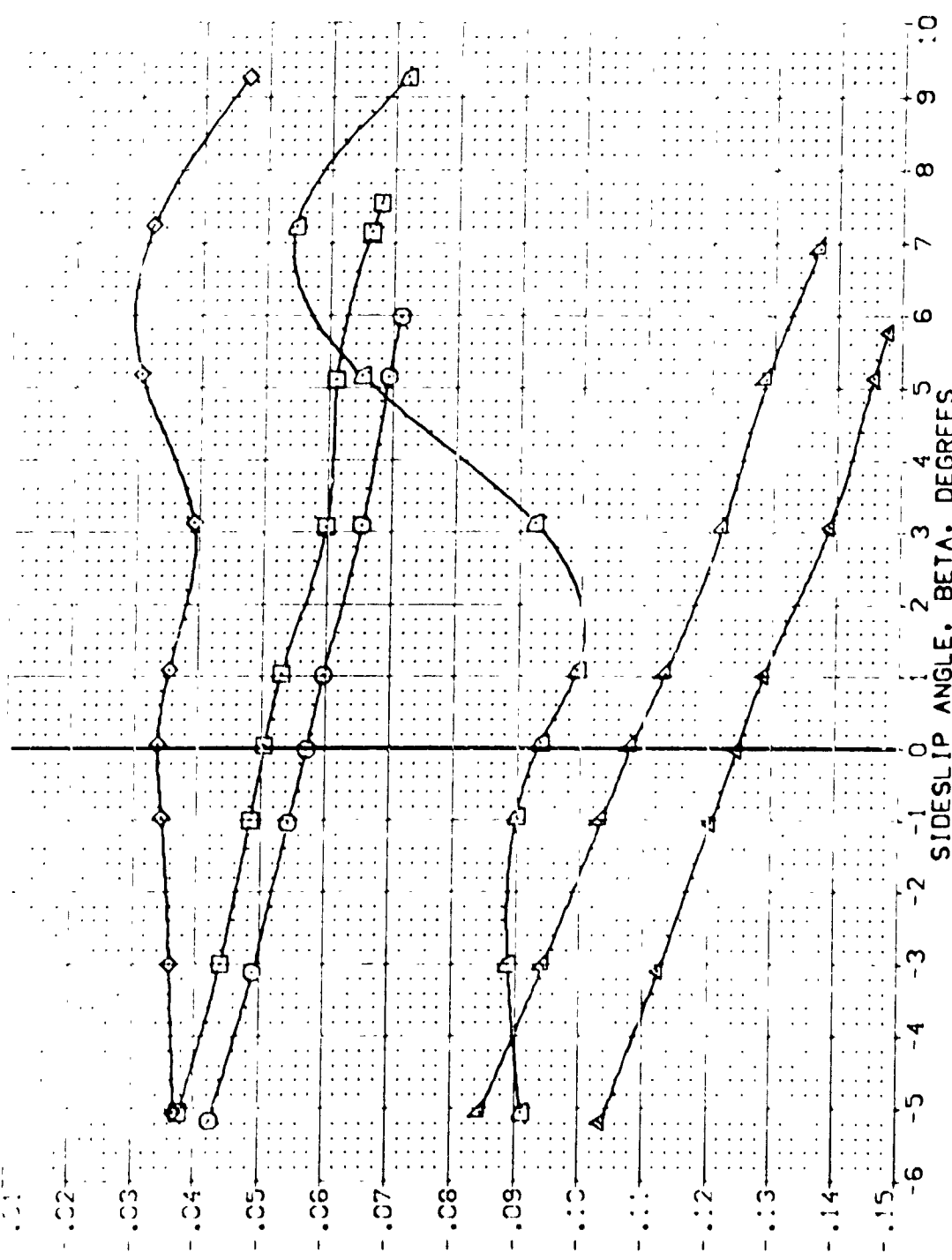


FIG. 32 RUDDER HINGE MOMENTS. 0.0 DEGREES RUDDER

(A) MAC = 0.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOG LAP	SPEED	REFERENCE INFORMATION
VER 025	ABC 97-747 D-538 B C M F V	0.000	0.000	0.000	25.000	2.4210
VER 026	ABC 97-747 D-538 B C M F V	10.000	0.000	0.000	25.000	14.2440
VER 027	ABC 97-747 D-538 B C M F V	20.000	0.000	0.000	25.000	28.1300
VER 028	ABC 97-747 D-538 B C M F V	30.000	0.000	0.000	25.000	37.1300
VER 029	ABC 97-747 D-538 B C M F V	40.000	0.000	0.000	25.000	46.1300
VER 030	ABC 97-747 D-538 B C M F V	50.000	0.000	0.000	25.000	55.1300
VER 031	ABC 97-747 D-538 B C M F V	60.000	0.000	0.000	25.000	64.1300
VER 032	ABC 97-747 D-538 B C M F V	70.000	0.000	0.000	25.000	73.1300
VER 033	ABC 97-747 D-538 B C M F V	80.000	0.000	0.000	25.000	82.1300
VER 034	ABC 97-747 D-538 B C M F V	90.000	0.000	0.000	25.000	91.1300

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHL R

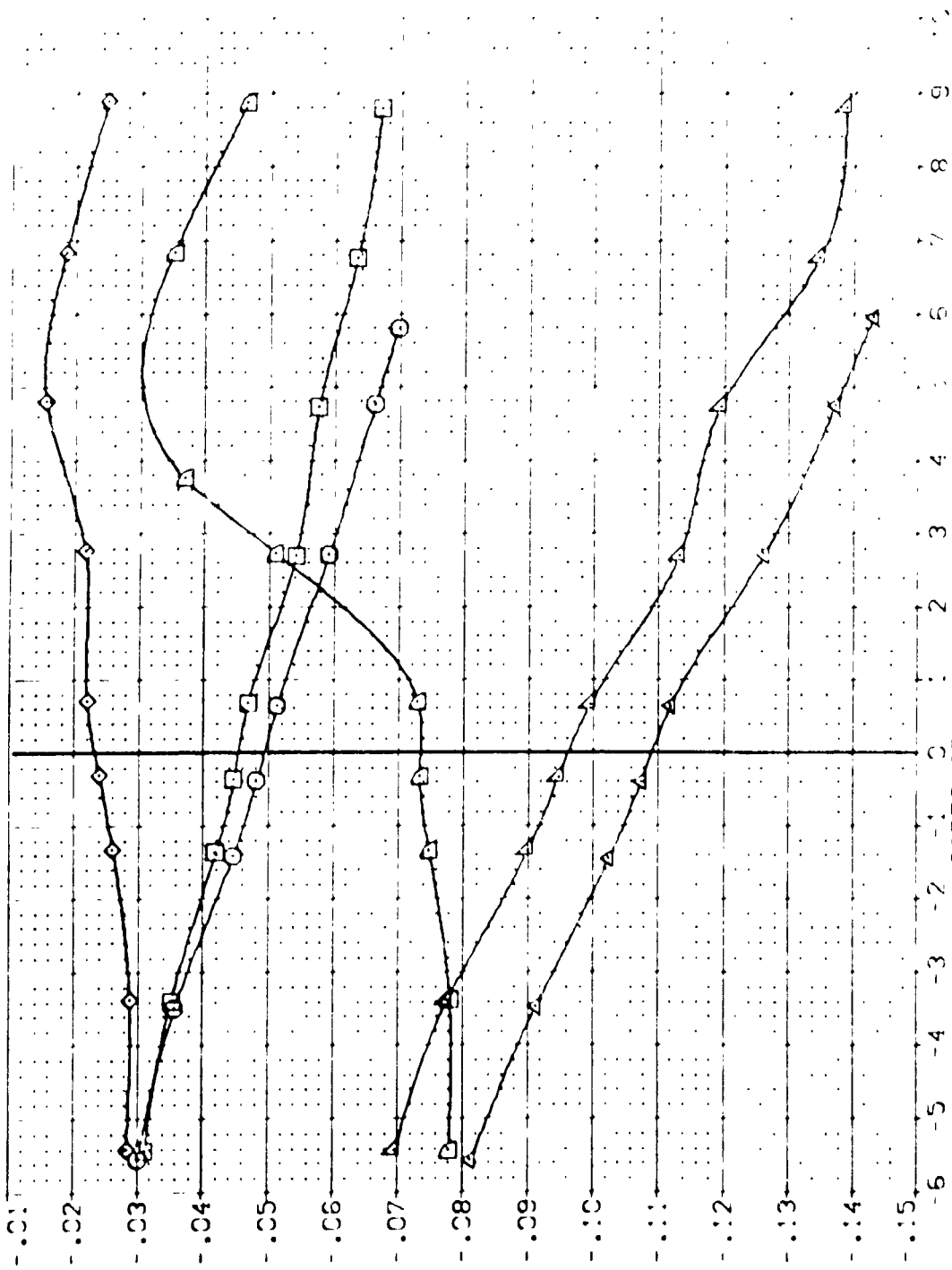


FIG. 32 RUDDER HINGE MOMENTS, 0.0 DEGREES RUDDER

(B) $\alpha = 2.00$



PAGE 403

DATA S. SYMBOL	COEFFICIENT DESCRIPTION	ALPHA	RUDDER	BOG	AP	SPD	SCALE	INTERPOL	DESCRIPTION	SCALE
ABC	9000000	000	10000	10000	100	10000	10000	10000	2.4210	10000
DEF	9000000	100	10000	10000	100	10000	10000	10000	1.2440	10000
GHI	9000000	200	10000	10000	100	10000	10000	10000	28.0000	10000
JKL	9000000	300	10000	10000	100	10000	10000	10000	30.0000	10000
MNO	9000000	400	10000	10000	100	10000	10000	10000	10000	10000
PQR	9000000	500	10000	10000	100	10000	10000	10000	10000	10000
STU	9000000	600	10000	10000	100	10000	10000	10000	10000	10000
VWX	9000000	700	10000	10000	100	10000	10000	10000	10000	10000
YZA	9000000	800	10000	10000	100	10000	10000	10000	10000	10000
BCD	9000000	900	10000	10000	100	10000	10000	10000	10000	10000

UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHL

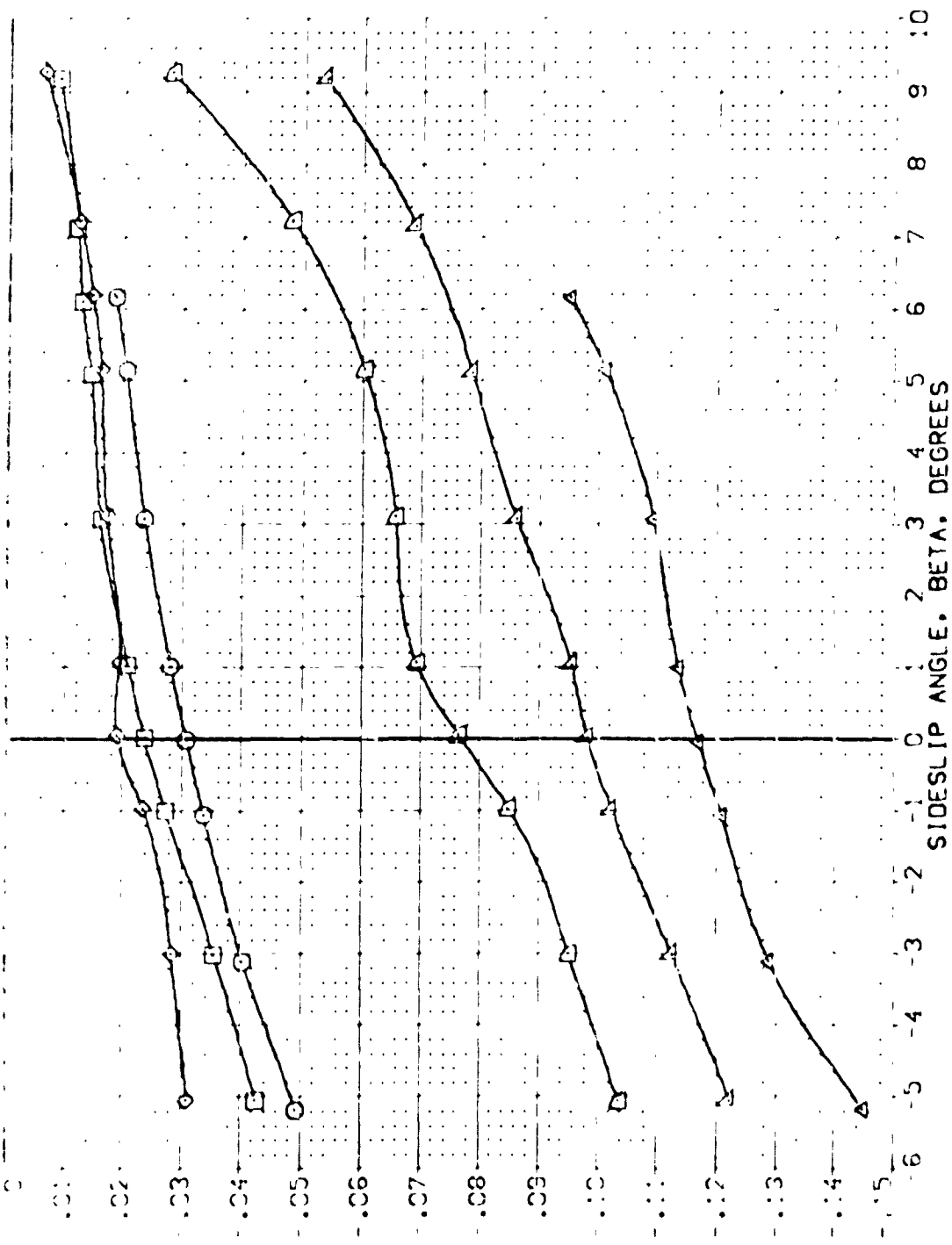


FIG. 33 RUDDER HINGE MOMENTS, -10. DEGREES RUDDER

(A) MAC = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BDELAP	SPOBRK	REFERENCE INFORMATION	SCALE
(YK025)	ARC 97-747 0A538 B C C M F V I	0.000	-10.000	-11.700	25.000	SREF 2.4210	SQ.F.
(YK026)	ARC 97-747 0A538 B C C M F V I	10.000	-10.000	-11.700	25.000	LREF 14.2440	N
(YK027)	ARC 97-747 0A538 B C C M F V I	20.000	-10.000	-11.700	25.000	BREF 28.1004	N
(YK028)	ARC 97-747 0A538 B C C M F V I	10.000	-10.000	-11.700	55.000	XMRP 32.3016	N
(YK029)	ARC 97-747 0A538 B C C M F V I	20.000	-10.000	-11.700	55.000	YMRP 50.0000	N
(YK030)	ARC 97-747 0A538 B C C M F V I	10.000	-10.000	-11.700	55.000	ZMRP 11.0300	N
(YK031)	ARC 97-747 0A538 B C C M F V I	20.000	-10.000	-11.700	55.000	SCALE 0.0300	N

UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUL

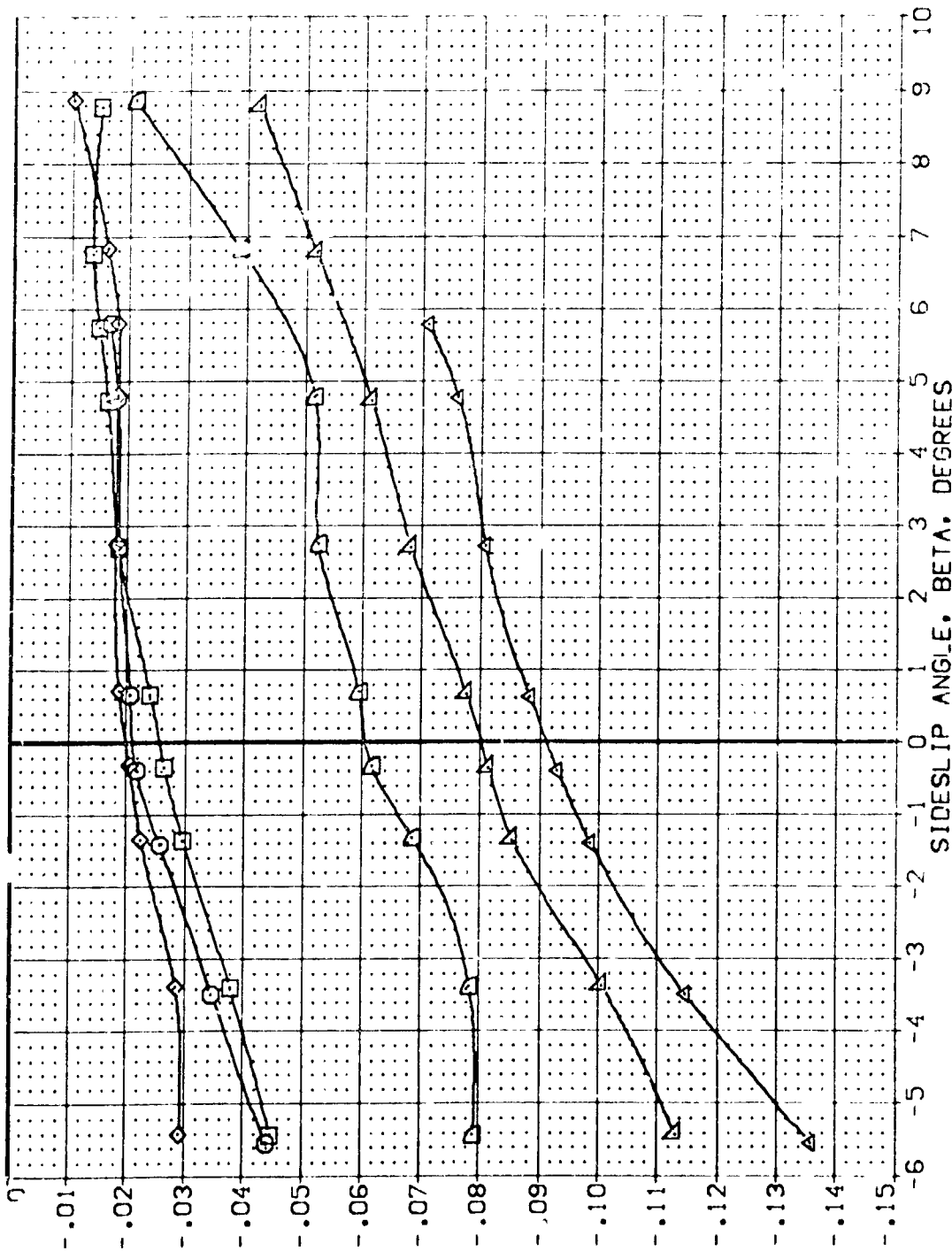


FIG. 33 RUDDER HINGE MOMENTS, -10. DEGREES RUDDER

(B)MACH = 2.00

REFERENCE INFORMATION	SC.F.
2.4210	1.
14.2440	1.
28.1204	1.
32.3000	1.
33.0000	1.

FIG. 33 RUDDER HINGE MOMENTS. -10. DEGREES RUDDER

$$[\text{A}]_{\text{MACI}} = 1.60$$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOLAP	SPDBRK	REFERENCE INFORMATION
(VEK025)	ARC 97-747 OAS38 B C M F V1	0.000	-10.000	-11.700	25.000	SREF 2.421C
(VEK026)	ARC 97-747 OAS38 B C M F V1	10.000	-10.000	-11.700	25.000	LREF 14.244C
(VEK027)	ARC 97-747 OAS38 B C M F V1	20.000	-10.000	-11.700	25.000	BREF 28.1004
(VEK028)	ARC 97-747 OAS38 B C M F V1	10.000	-10.000	-11.700	55.000	XMRP 32.3013
(VEK030)	ARC 97-747 OAS38 B C M F V1	10.000	-10.000	-11.700	55.000	YMRP 0.000
(VEK031)	ARC 97-747 OAS38 B C M F V1	20.000	-10.000	-11.700	55.000	ZMRP 11.000
						SCALE 11.000

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

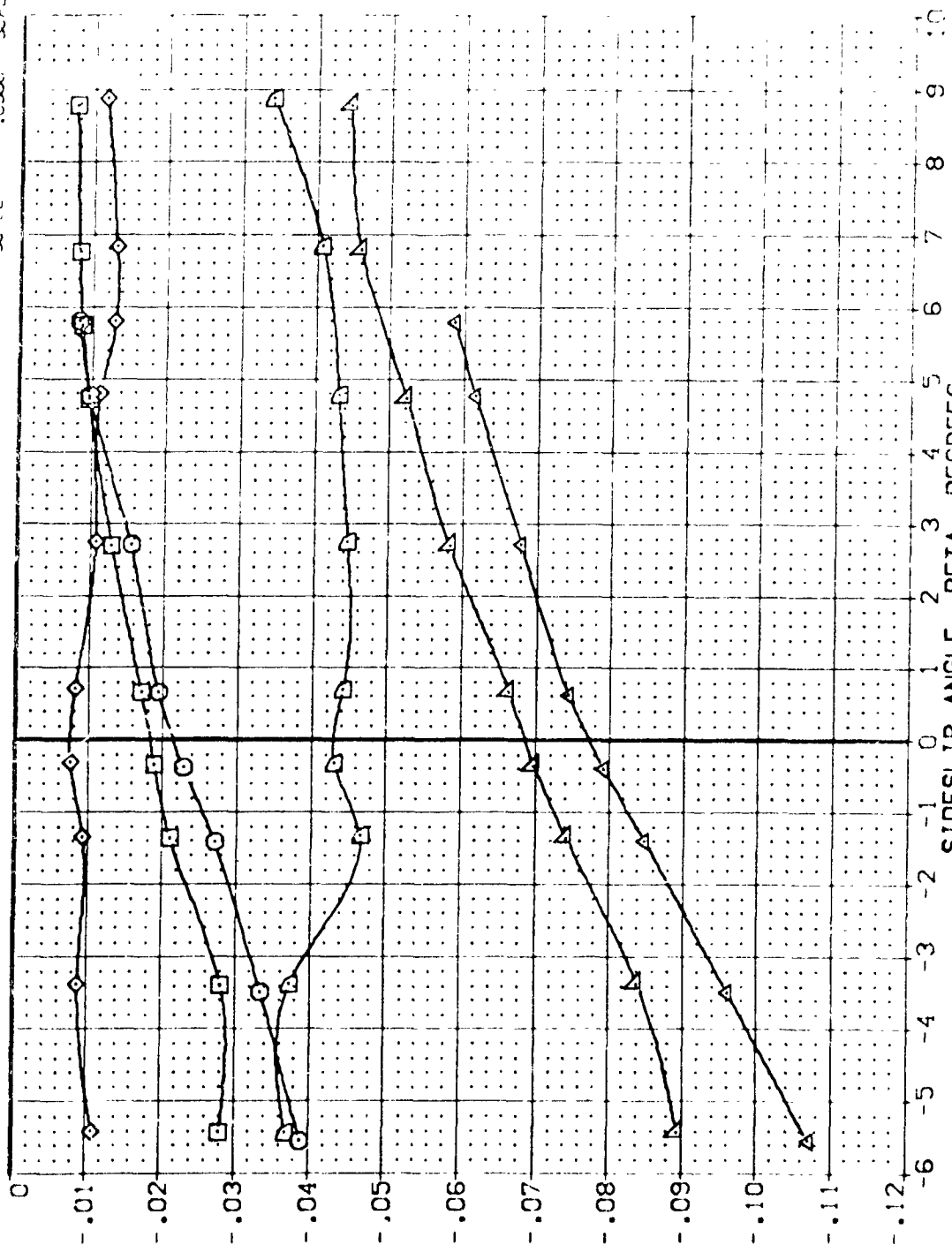


FIG. 33 RUDDER HINGE MOMENTS, -10. DEGREES RUDDER

(B)MACH = 2.00

DATA SET	SYMBOL	DESCRIPTION	ALPHA	RUDDER	BOG LAP	SPEED	REFERENCE INFORMATION
YES	36	ABC 90-741 C-553 B C-553 B C-553 B	0.000	0.000	0.000	25.000	2.4210
YES	36	ABC 90-741 C-553 B C-553 B C-553 B	10.000	0.000	0.000	25.000	14.2440
YES	36	ABC 90-741 C-553 B C-553 B C-553 B	20.000	0.000	0.000	25.000	28.1000
YES	36	ABC 90-741 C-553 B C-553 B C-553 B	30.000	0.000	0.000	25.000	32.3000
YES	36	ABC 90-741 C-553 B C-553 B C-553 B	40.000	0.000	0.000	25.000	36.5000
YES	36	ABC 90-741 C-553 B C-553 B C-553 B	50.000	0.000	0.000	25.000	40.7000
YES	36	ABC 90-741 C-553 B C-553 B C-553 B	60.000	0.000	0.000	25.000	44.9000
YES	36	ABC 90-741 C-553 B C-553 B C-553 B	70.000	0.000	0.000	25.000	49.1000
YES	36	ABC 90-741 C-553 B C-553 B C-553 B	80.000	0.000	0.000	25.000	53.3000
YES	36	ABC 90-741 C-553 B C-553 B C-553 B	90.000	0.000	0.000	25.000	57.5000
YES	36	ABC 90-741 C-553 B C-553 B C-553 B	100.000	0.000	0.000	25.000	61.7000
YES	36	ABC 90-741 C-553 B C-553 B C-553 B	110.000	0.000	0.000	25.000	65.9000
YES	36	ABC 90-741 C-553 B C-553 B C-553 B	120.000	0.000	0.000	25.000	70.1000
YES	36	ABC 90-741 C-553 B C-553 B C-553 B	130.000	0.000	0.000	25.000	74.3000
YES	36	ABC 90-741 C-553 B C-553 B C-553 B	140.000	0.000	0.000	25.000	78.5000
YES	36	ABC 90-741 C-553 B C-553 B C-553 B	150.000	0.000	0.000	25.000	82.7000
YES	36	ABC 90-741 C-553 B C-553 B C-553 B	160.000	0.000	0.000	25.000	86.9000
YES	36	ABC 90-741 C-553 B C-553 B C-553 B	170.000	0.000	0.000	25.000	91.1000
YES	36	ABC 90-741 C-553 B C-553 B C-553 B	180.000	0.000	0.000	25.000	95.3000
YES	36	ABC 90-741 C-553 B C-553 B C-553 B	190.000	0.000	0.000	25.000	99.5000
YES	36	ABC 90-741 C-553 B C-553 B C-553 B	200.000	0.000	0.000	25.000	103.7000

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, C_{HR}

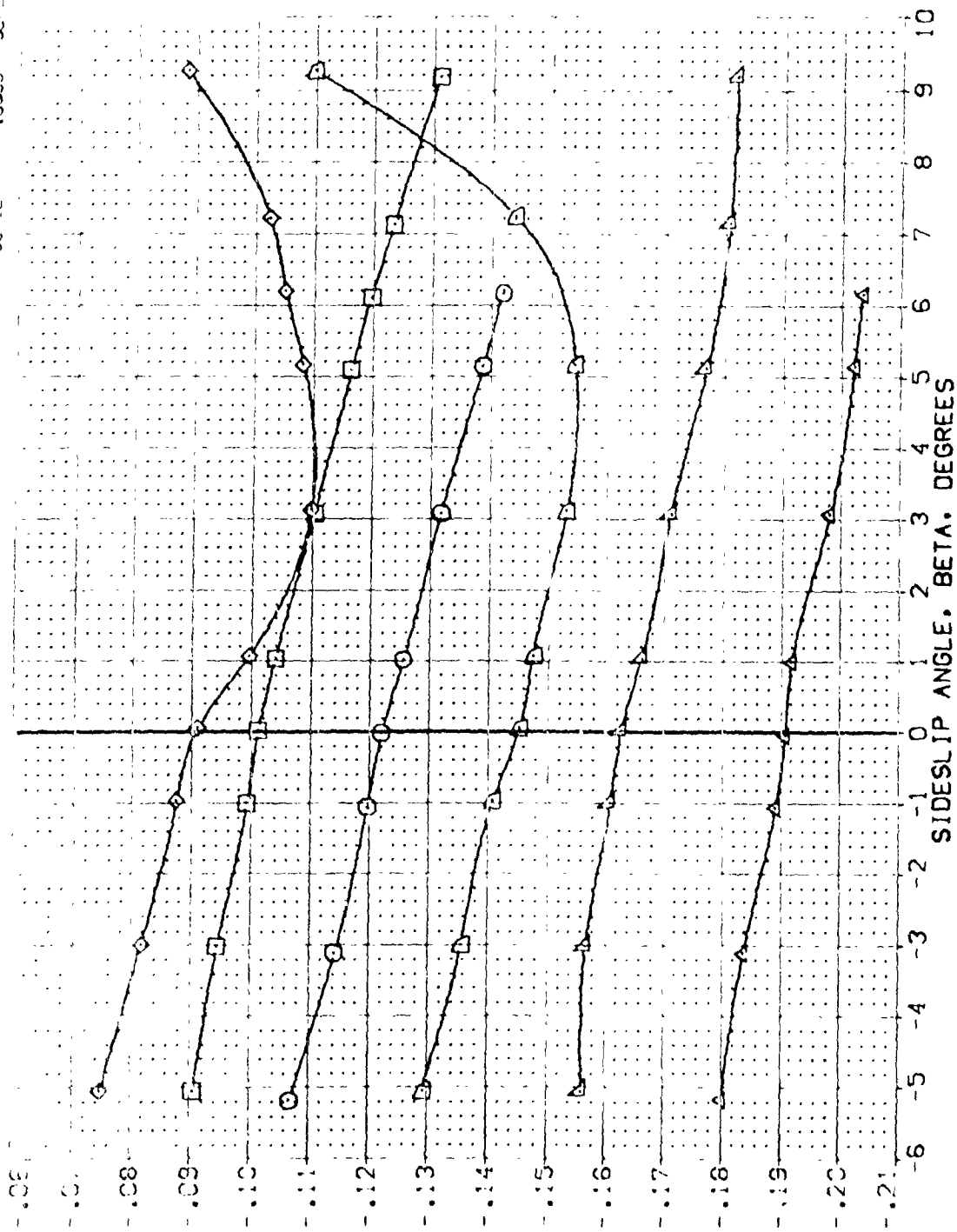


FIG. 33 RUDDER HINGE MOMENTS, -10. DEGREES RUDDER

(MACH = 1.60)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
[YEQ35]	ARC 97-747 0A538 B C M F V I V	0.000	-10.000	-11.700	25.000	SREF 2.4210
[YEQ36]	ARC 97-747 0A538 B C M F V I V	10.000	-10.000	-11.700	25.000	LREF 14.2440
[YEQ37]	ARC 97-747 0A538 B C M F V I V	20.000	-10.000	-11.700	25.000	BREF 28.1000
[YEQ29]	ARC 97-747 0A538 B C M F V I V	0.000	-10.000	-11.700	55.000	XMR0 32.3000
[YEQ30]	ARC 97-747 0A538 B C M F V I V	10.000	-10.000	-11.700	55.000	YMR0 10.2000
[YEQ31]	ARC 97-747 0A538 B C M F V I V	20.000	-10.000	-11.700	55.000	ZMR0 11.2000
						SCALE .0300

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

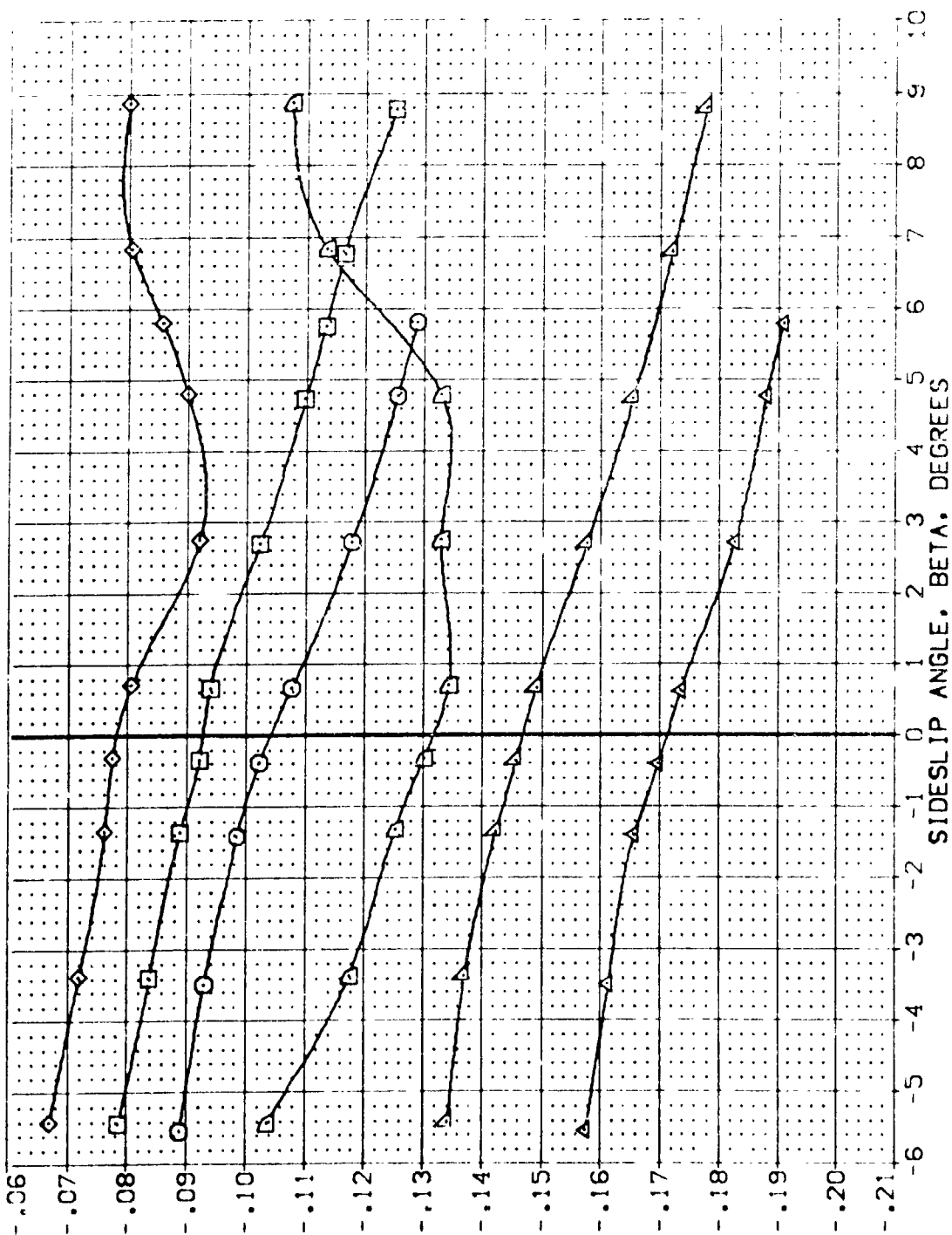


FIG. 33 RUDDER HINGE MOMENTS, -10. DEGREES RUDDER

(B)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	ALPHA	RUDDER	BD FLAP	SPDBRK	REFERENCE INFORMATION
ARC 97-747	0A53B	B	0.000	10.000	0.700	25.000	SREF 2.4210
ARC 97-747	0A53B	B	10.000	10.000	0.700	25.000	LREF 14.2440
ARC 97-747	0A53B	B	20.000	10.000	0.700	25.000	BRF 29.1004
ARC 97-747	0A53B	B	0.000	10.000	0.700	55.000	XR 32.3010
ARC 97-747	0A53B	B	10.000	10.000	0.700	55.000	YMR 11.2000
ARC 97-747	0A53B	B	20.000	10.000	0.700	55.000	ZMR 11.0000

SCALE .0000

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, C_{HLR}

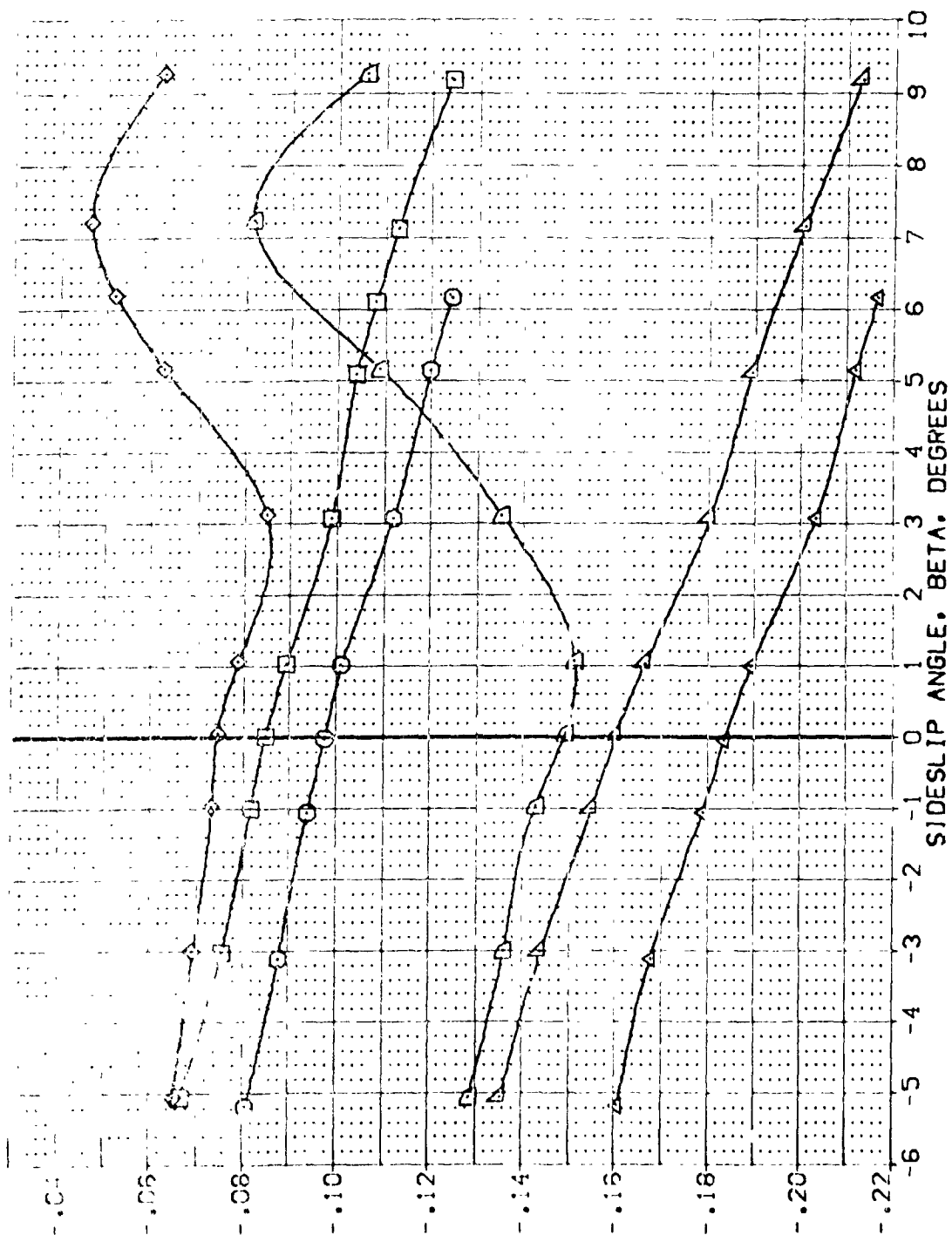


FIG. 33 RUDDER HINGE MOMENTS, -10. DEGREES RUDDER

(A) MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	ALPHA	RUDDER	BOF LAP	SPOORX	REFERENCE INFORMATION
ARC 97-747	0AS38 B C M F V	V	0.000	-0.000	-11.700	25.000	SREF 2.4210
ARC 97-747	0AS38 B C M F V	V	10.000	-0.000	-11.700	25.000	DEF 14.2442
ARC 97-747	0AS38 B C M F V	V	20.000	-0.000	-11.700	25.000	REF 28.1004
ARC 97-747	0AS38 B C M F V	V	30.000	-0.000	-11.700	25.000	REF 30.0000
ARC 97-747	0AS38 B C M F V	V	40.000	-0.000	-11.700	25.000	REF 31.0000
ARC 97-747	0AS38 B C M F V	V	50.000	-0.000	-11.700	25.000	REF 31.0000
ARC 97-747	0AS38 B C M F V	V	60.000	-0.000	-11.700	25.000	REF 31.0000
ARC 97-747	0AS38 B C M F V	V	70.000	-0.000	-11.700	25.000	REF 31.0000
ARC 97-747	0AS38 B C M F V	V	80.000	-0.000	-11.700	25.000	REF 31.0000
ARC 97-747	0AS38 B C M F V	V	90.000	-0.000	-11.700	25.000	REF 31.0000
ARC 97-747	0AS38 B C M F V	V	100.000	-0.000	-11.700	25.000	REF 31.0000

SCALE

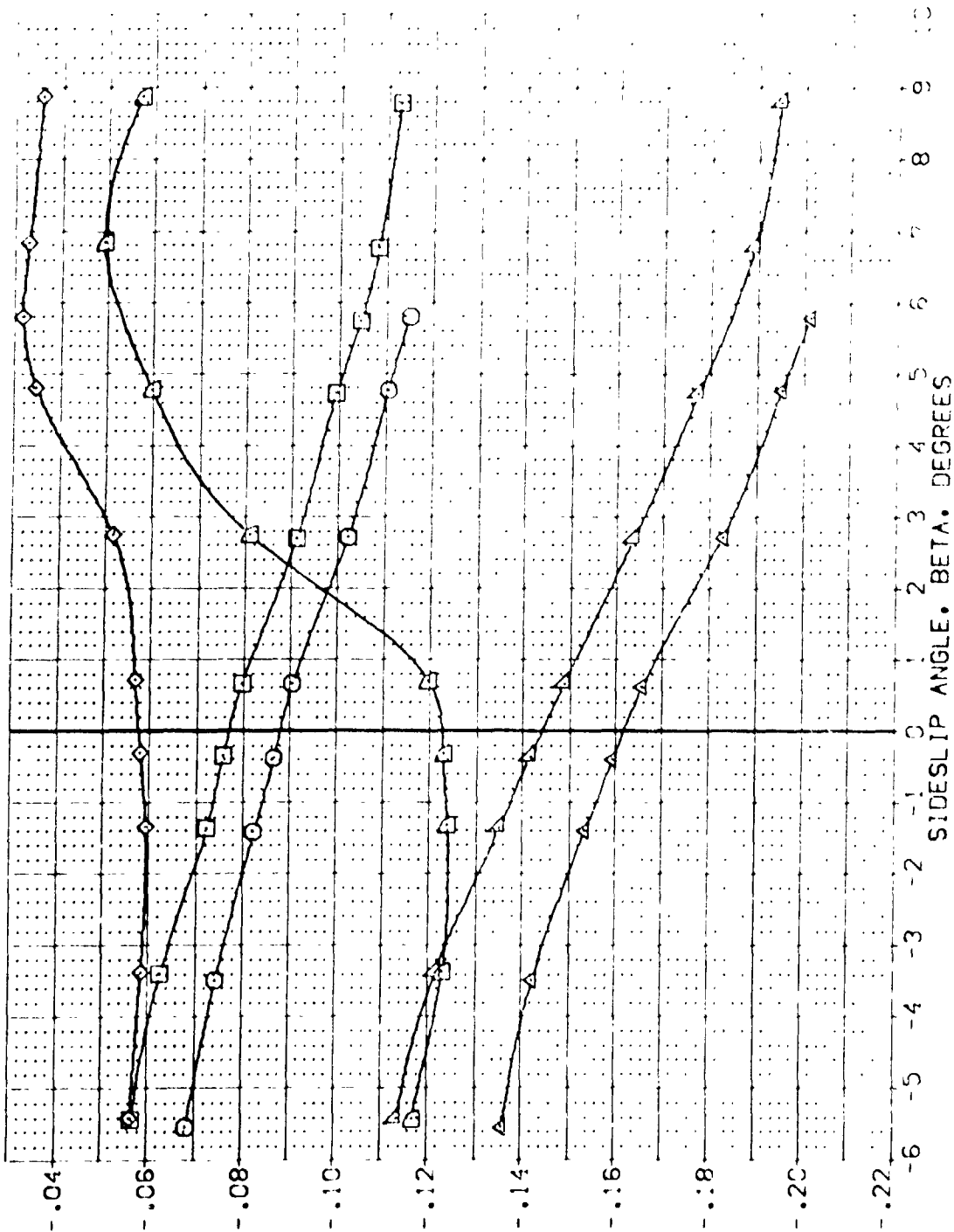


FIG. 33 RUDDER HINGE MOMENTS, -10, DEGREES RUDDER

(B)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (YES32) () ARC 97-747 04538 B C M F V Y 100% RW
 (YES33) () ARC 97-747 04538 B C M F V Y 100% RW
 (YES34) () ARC 97-747 04538 B C M F V Y 100% RW

ALPHA RUDDER BOF LAP SPOGRV
 0.000 -25.000 -1.700 55.000
 10.000 -25.000 -1.700 55.000
 20.000 -25.000 -1.700 55.000

REFERENCE INFORMATION
 SPEED 2.4210 SQ.FT.
 DEF 4.2740
 BOF 28.1000
 RUDD 32.3010
 RWDD 11.0000
 ZWDD 11.2500
 SCALE 1.0000

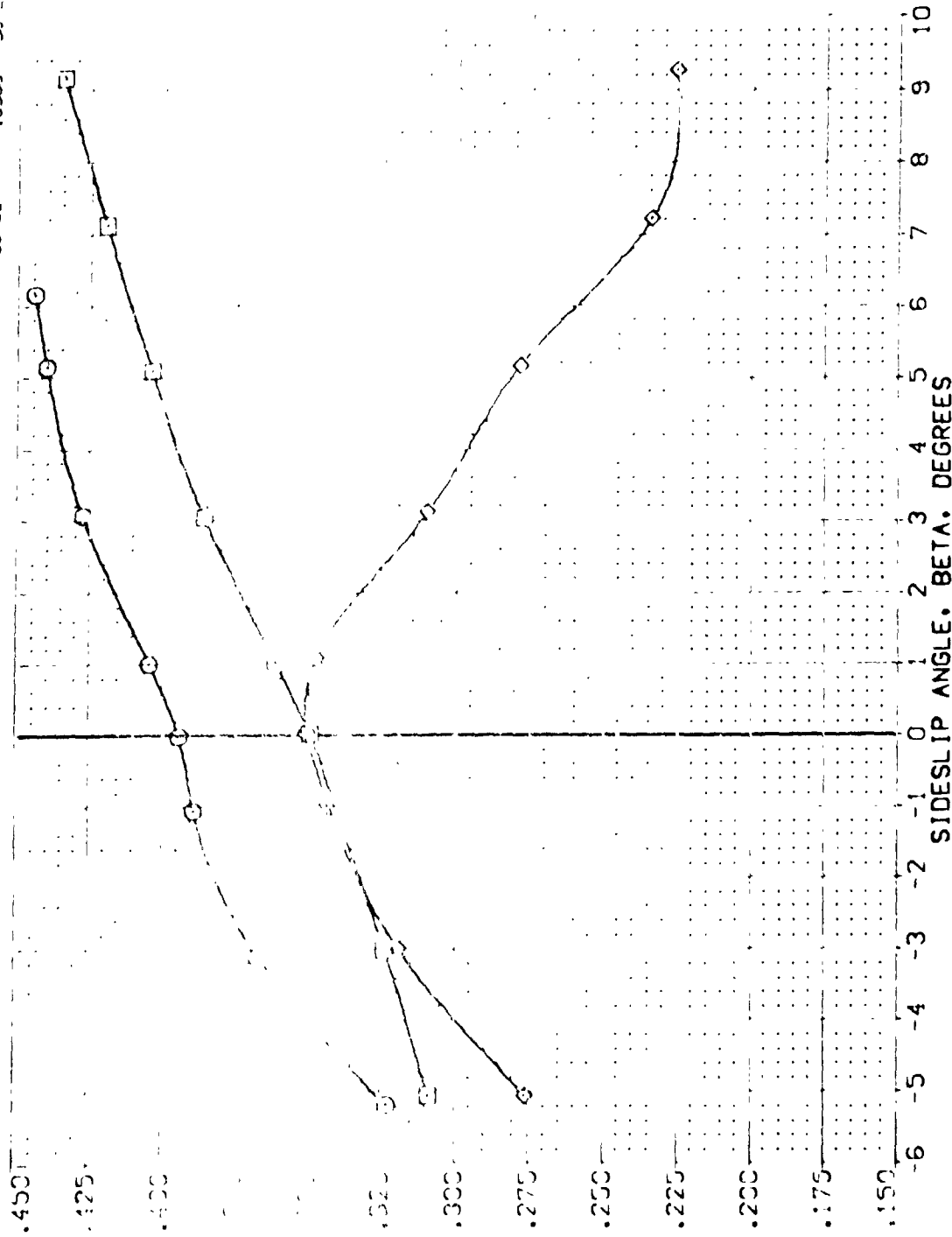


FIG. 34 RUDDER HINGE MOMENTS, -25. DEGREES RUDDER

(A)MAC = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

ARC	97-747	0-538	B	C	M	F	V	1	V	NON	RV/L
ARC	97-747	0-538	B <td>C <td>M <td>F <td>V <td>1 <td>V <td>NON <td>RV/L</td> </td></td></td></td></td></td></td>	C <td>M <td>F <td>V <td>1 <td>V <td>NON <td>RV/L</td> </td></td></td></td></td></td>	M <td>F <td>V <td>1 <td>V <td>NON <td>RV/L</td> </td></td></td></td></td>	F <td>V <td>1 <td>V <td>NON <td>RV/L</td> </td></td></td></td>	V <td>1 <td>V <td>NON <td>RV/L</td> </td></td></td>	1 <td>V <td>NON <td>RV/L</td> </td></td>	V <td>NON <td>RV/L</td> </td>	NON <td>RV/L</td>	RV/L
ARC	97-747	0-538	B <td>C <td>M <td>F <td>V <td>1 <td>V <td>NON <td>RV/L</td> </td></td></td></td></td></td></td>	C <td>M <td>F <td>V <td>1 <td>V <td>NON <td>RV/L</td> </td></td></td></td></td></td>	M <td>F <td>V <td>1 <td>V <td>NON <td>RV/L</td> </td></td></td></td></td>	F <td>V <td>1 <td>V <td>NON <td>RV/L</td> </td></td></td></td>	V <td>1 <td>V <td>NON <td>RV/L</td> </td></td></td>	1 <td>V <td>NON <td>RV/L</td> </td></td>	V <td>NON <td>RV/L</td> </td>	NON <td>RV/L</td>	RV/L
ARC	97-747	0-538	B <td>C <td>M <td>F <td>V <td>1 <td>V <td>NON <td>RV/L</td> </td></td></td></td></td></td></td>	C <td>M <td>F <td>V <td>1 <td>V <td>NON <td>RV/L</td> </td></td></td></td></td></td>	M <td>F <td>V <td>1 <td>V <td>NON <td>RV/L</td> </td></td></td></td></td>	F <td>V <td>1 <td>V <td>NON <td>RV/L</td> </td></td></td></td>	V <td>1 <td>V <td>NON <td>RV/L</td> </td></td></td>	1 <td>V <td>NON <td>RV/L</td> </td></td>	V <td>NON <td>RV/L</td> </td>	NON <td>RV/L</td>	RV/L

ALPHA RUDDER BDLAP SPDBRK

ALPHA	RUDDER	BDLAP	SPDBRK
0.000	-25.000	-11.700	55.000
10.000	-25.000	-11.700	55.000
20.000	-25.000	-11.700	55.000

REFERENCE INFORMATION

REF	SCALE
2.4210	SCALE
14.2440	SCALE
28.1200	SCALE
32.1000	SCALE
11.2000	SCALE
10.9000	SCALE

RUDDER HINGE MOMENT COEFFICIENT, CHR



FIG. 34 RUDDER HINGE MOMENTS, -25. DEGREES RUDDER

(B)MAC = 2.00

SPFE	2.4210	52. FT.
LFEE	14.2440	"
BFEE	28.1004	"
YBRO	32.3010	"
YBRO	11.2500	"
SCALE	.0300	SCALE

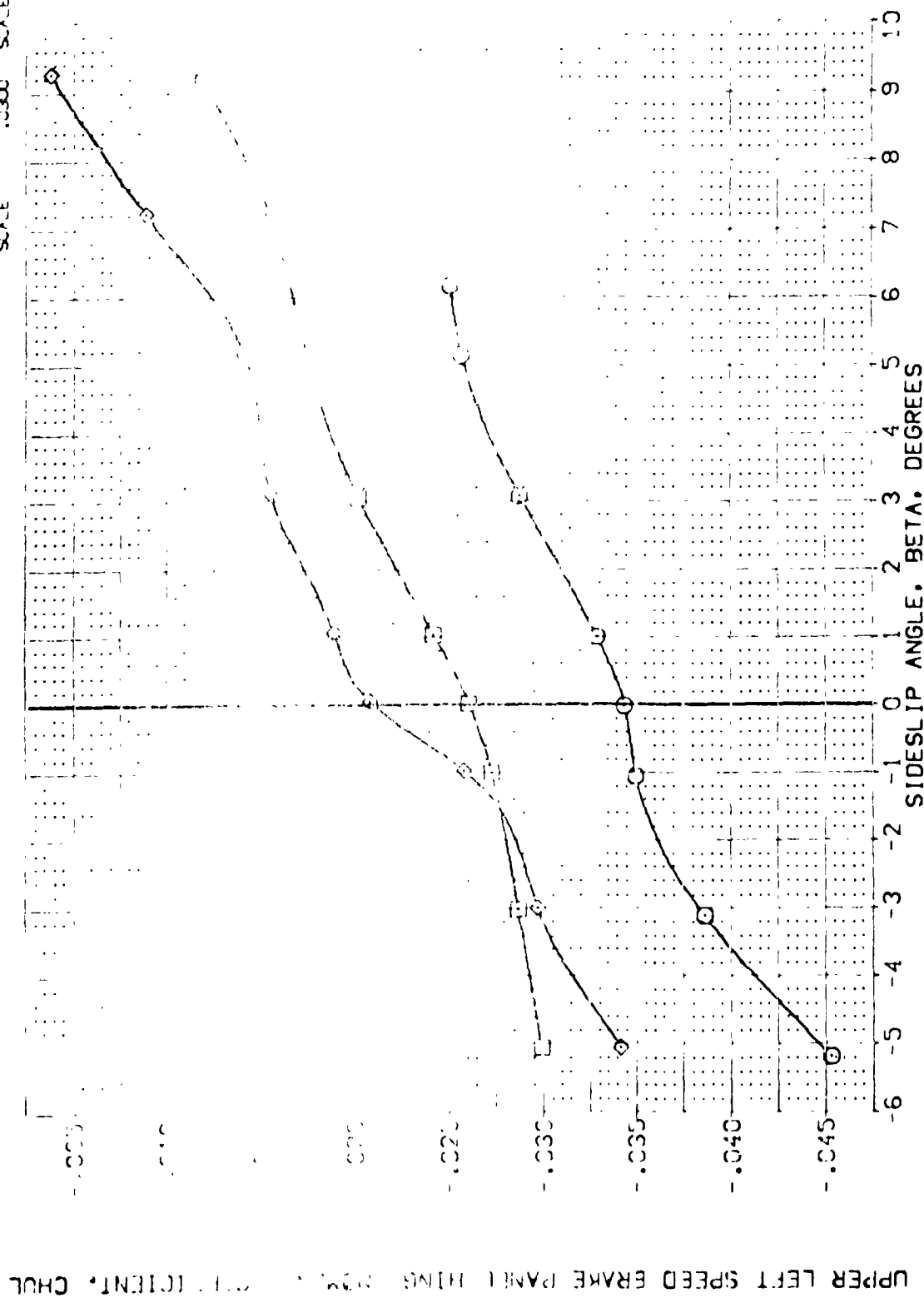


FIG. 34 RUDDER HINGE MOMENTS, -25. DEGREES RUDDER

$$[A]_{MACH} = 1.60$$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BDLAP	SPERM	REFERENCE INFORMATION
(VER032)	ARC 97-747 D-538 B C M F V1 V	0.000	-25.000	-11.700	55.000	SPREF 2.4210 SCALE
(VER033)	ARC 97-747 D-538 B C M F V1 V	10.000	-25.000	-11.700	55.000	REF 14.2440
(VER034)	ARC 97-747 D-538 B C M F V1 V	20.000	-25.000	-11.700	55.000	REF 28.1100
						REF 37.3000
						REF 46.5000
						REF 55.7000
						REF 64.9000
						REF 74.1000
						REF 83.3000
						REF 92.5000
						REF 101.7000
						REF 110.9000
						REF 120.1000
						REF 129.3000
						REF 138.5000
						REF 147.7000
						REF 156.9000
						REF 166.1000
						REF 175.3000
						REF 184.5000
						REF 193.7000
						REF 202.9000
						REF 212.1000
						REF 221.3000
						REF 230.5000
						REF 239.7000
						REF 248.9000
						REF 258.1000
						REF 267.3000
						REF 276.5000
						REF 285.7000
						REF 294.9000
						REF 304.1000
						REF 313.3000
						REF 322.5000
						REF 331.7000
						REF 340.9000
						REF 350.1000
						REF 359.3000
						REF 368.5000
						REF 377.7000
						REF 386.9000
						REF 396.1000
						REF 405.3000
						REF 414.5000
						REF 423.7000
						REF 432.9000
						REF 442.1000
						REF 451.3000
						REF 460.5000
						REF 469.7000
						REF 478.9000
						REF 488.1000
						REF 497.3000
						REF 506.5000
						REF 515.7000
						REF 524.9000
						REF 534.1000
						REF 543.3000
						REF 552.5000
						REF 561.7000
						REF 570.9000
						REF 580.1000
						REF 589.3000
						REF 598.5000
						REF 607.7000
						REF 616.9000
						REF 626.1000
						REF 635.3000
						REF 644.5000
						REF 653.7000
						REF 662.9000
						REF 672.1000
						REF 681.3000
						REF 690.5000
						REF 699.7000
						REF 708.9000
						REF 718.1000
						REF 727.3000
						REF 736.5000
						REF 745.7000
						REF 754.9000
						REF 764.1000
						REF 773.3000
						REF 782.5000
						REF 791.7000
						REF 800.9000
						REF 810.1000
						REF 819.3000
						REF 828.5000
						REF 837.7000
						REF 846.9000
						REF 856.1000
						REF 865.3000
						REF 874.5000
						REF 883.7000
						REF 892.9000
						REF 902.1000
						REF 911.3000
						REF 920.5000
						REF 929.7000
						REF 938.9000
						REF 948.1000
						REF 957.3000
						REF 966.5000
						REF 975.7000
						REF 984.9000
						REF 994.1000
						REF 1003.3000
						REF 1012.5000
						REF 1021.7000
						REF 1030.9000
						REF 1040.1000
						REF 1049.3000
						REF 1058.5000
						REF 1067.7000
						REF 1076.9000
						REF 1086.1000
						REF 1095.3000
						REF 1104.5000
						REF 1113.7000
						REF 1122.9000
						REF 1132.1000
						REF 1141.3000
						REF 1150.5000
						REF 1159.7000
						REF 1168.9000
						REF 1178.1000
						REF 1187.3000
						REF 1196.5000
						REF 1205.7000
						REF 1214.9000
						REF 1224.1000
						REF 1233.3000
						REF 1242.5000
						REF 1251.7000
						REF 1260.9000
						REF 1270.1000
						REF 1279.3000
						REF 1288.5000
						REF 1297.7000
						REF 1306.9000
						REF 1316.1000
						REF 1325.3000
						REF 1334.5000
						REF 1343.7000
						REF 1352.9000
						REF 1362.1000
						REF 1371.3000
						REF 1380.5000
						REF 1389.7000
						REF 1398.9000
						REF 1408.1000
						REF 1417.3000
						REF 1426.5000
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						REF 1803.7000
						REF 1812.9000
						REF 1822.1000
						REF 1831.3000
						REF 1840.5000
						REF 1849.7000
						REF 1858.9000
						REF 1868.1000
						REF 1877.3000
						REF 1886.5000
						REF 1895.7000
						REF 1904.9000
						REF 1914.1000
						REF 1923.3000
						REF 1932.5000
						REF 1941.7000
						REF 1950.9000
						REF 1960.1000
						REF 1969.3000
						REF 1978.5000
						REF 1987.7000
						REF 1996.9000
						REF 2006.1000
						REF 2015.3000
						REF 2024.5000
						REF 2033.7000
						REF 2042.9000
						REF 2052.1000
						REF 2061.3000
						REF 2070.5000
						REF 2079.7000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

SYMBOL	CONFIGURATION	DESCRIPTION
□	ARC 97-747 CAS38 B C H F V	V
○	ARC 97-747 CAS38 B C H F V	V
◇	ARC 97-747 CAS38 B C H F V	V

ALPHA RUDDER BDF LAP SPOBRK

ALPHA	RUDDER	BDF LAP	SPOBRK
.000	-25.000	-11.700	55.000
10.000	-25.000	-11.700	55.000
20.000	-25.000	-11.700	55.000

REFERENCE INFORMATION

REF	SC. FT.
SREF	2.4210
LREF	14.2440
BREF	28.1004
XMRP	32.3010
YMRP	.0000
ZMRP	11.2500
SCALE	.0300

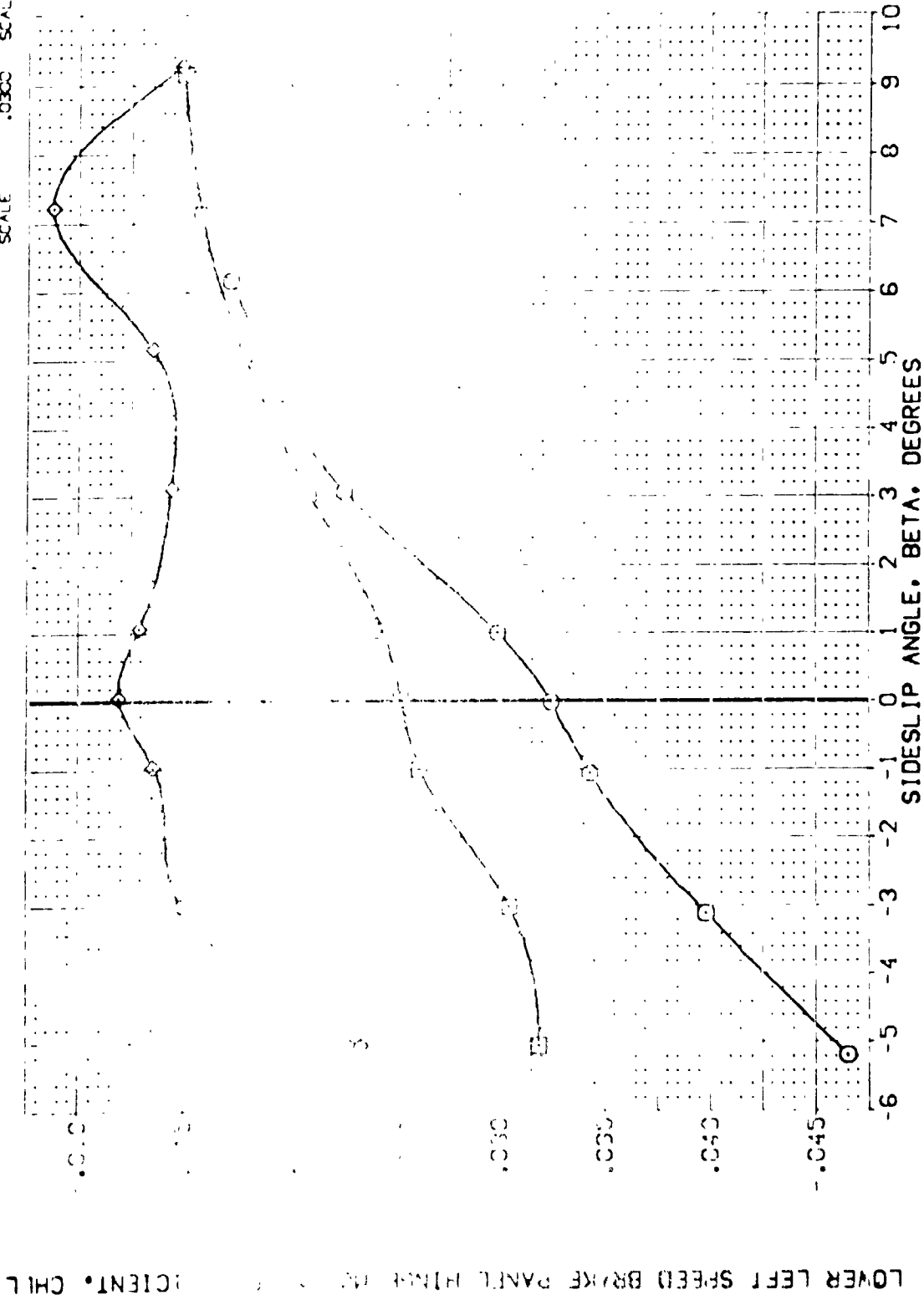


FIG. 34 RUDDER HINGE MOMENTS. -25. DEGREES RUDDER

(A) MACH = 1.60

DATA SET SYMBOL: (VEK032) (VEK033) (VEK034)

CONFIGURATION DESCRIPTION: RC 97-747 BAS38 B C M F V I V NOM: RV/L ARC 97-747 BAS38 B C M F V I V NOM: RV/L ARC 97-747 BAS38 B C M F V I V NOM: RV/L

ALPHA: .000 10.000 20.000

RUDDER: -25.000 -25.000 -25.000

BDF LAP: -11.700 -11.700 -11.700

SPEED: 55.000 55.000 55.000

REFERENCE INFORMATION: SR/LF 2.4210 DEF 14.2440 BR/L 38.1000 YMRD 32.5000 ZMRD 11.7000 SCALE 1.0000

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

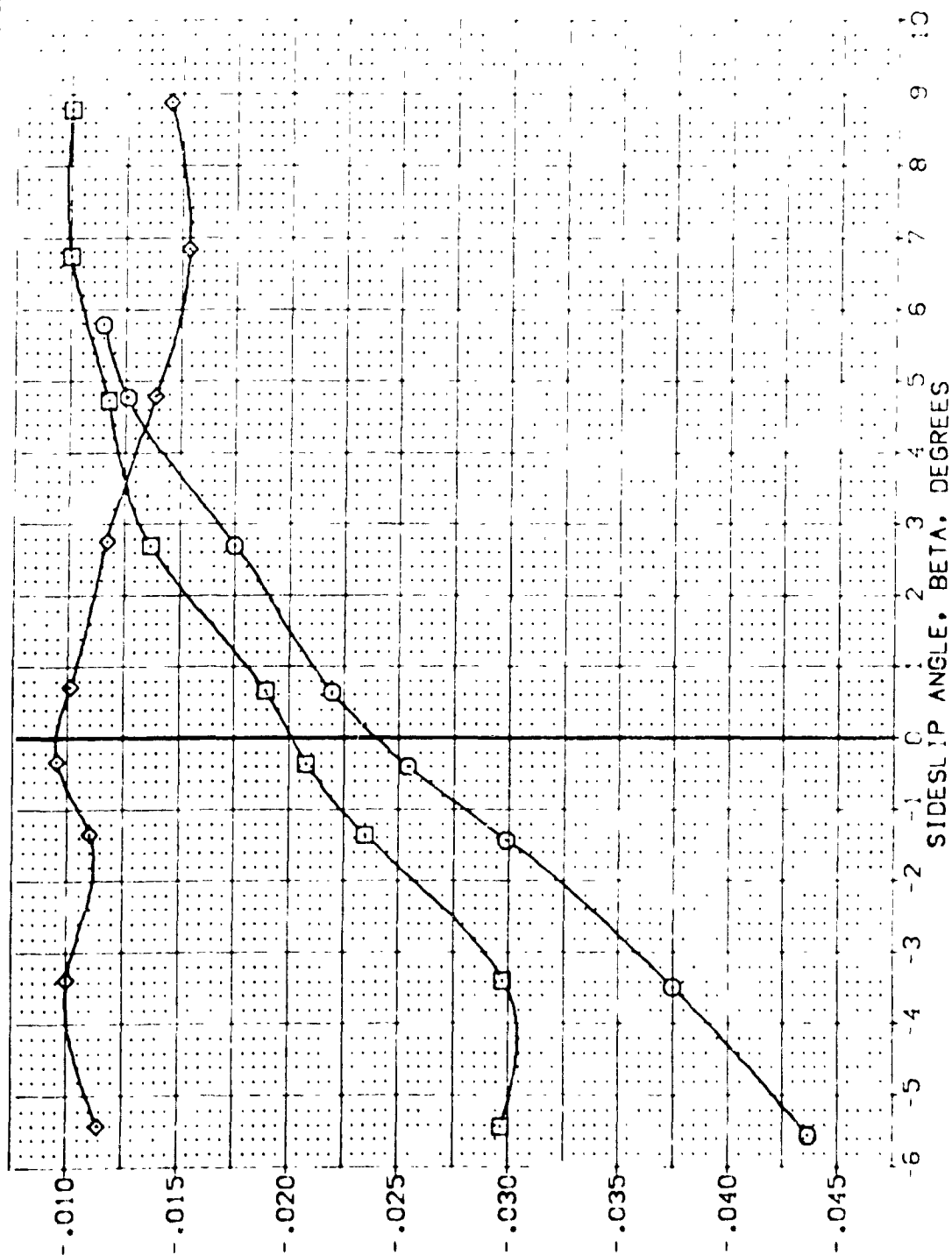


FIG. 34 RUDDER HINGE MOMENTS, -25. DEGREES RUDDER

(B)YAC = 2.00

REFERENCE INFORMATION	
SRI	2.4210
REF	14.2440
SR1	28.004
SR2	32.3010
SR3	0.000
SR4	11.2000
SCALE	0.000

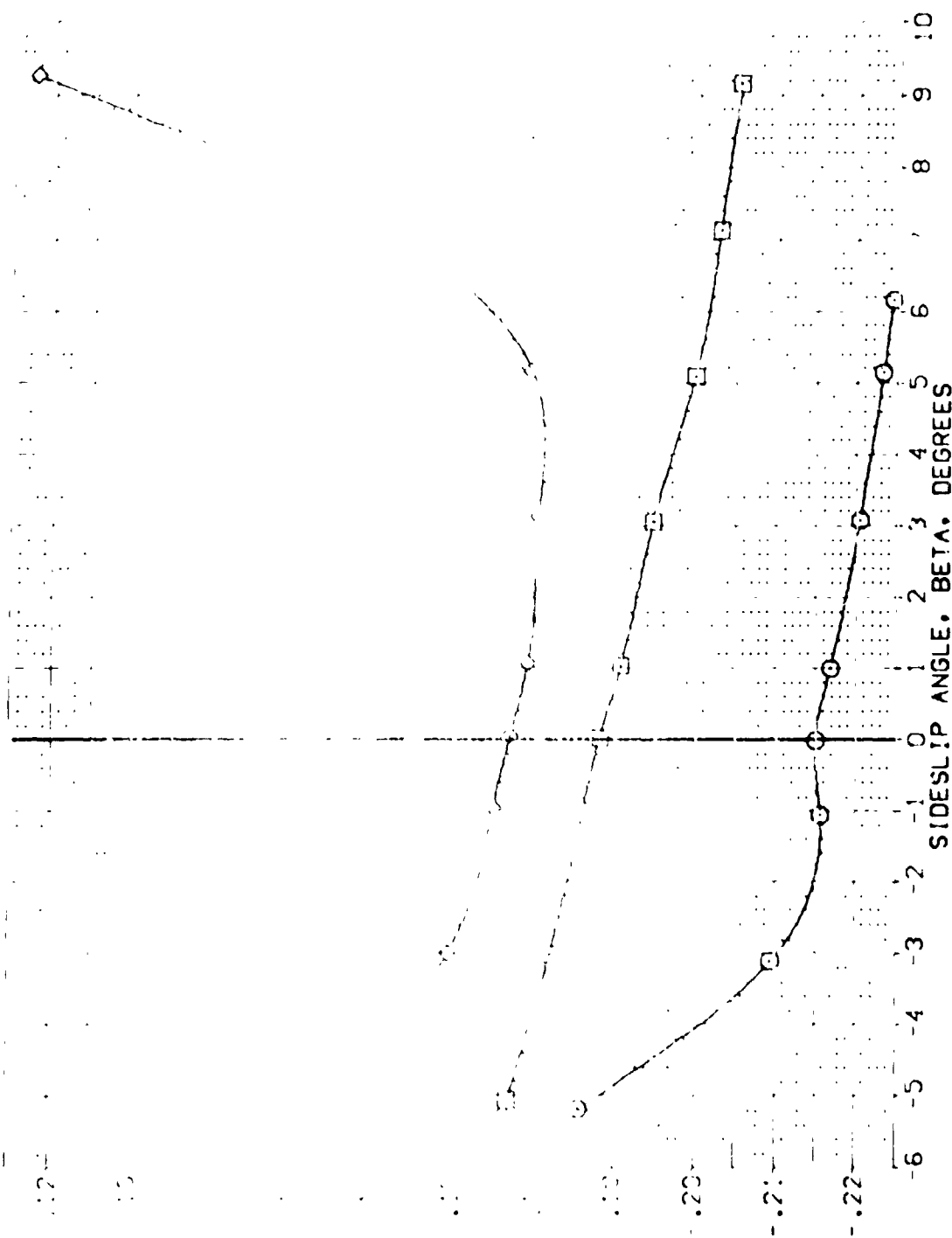


FIG. 34 RUDDER HINGE MOMENTS, -25. DEGREES RUDDER

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DATA SET SYMBOL CONFIGURATION DESCRIPTION

[YK032] ARC 97-747 01538 B C M F VI V
[YK033] ARC 97-747 01538 B C M F VI V
[YK034] ARC 97-747 14538 B C M F VI V

NOT, RV/L
NOT, RV/L
NOT, RV/L

ALPHA RUDDER BOFLAP SPDBRK
0.000 -25.000 -11.700 55.000
11.000 -25.000 -11.700 55.000
20.000 -25.000 -11.700 55.000

SPDBRK
55.000
55.000
55.000

REFERENCE INFORMATION
SPREF 2.1210 150.000
REF 14.1410 150.000
REF 28.1000 150.000
XREF 37.3000 150.000
XREF 11.0000 150.000
SCALE 150.000

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

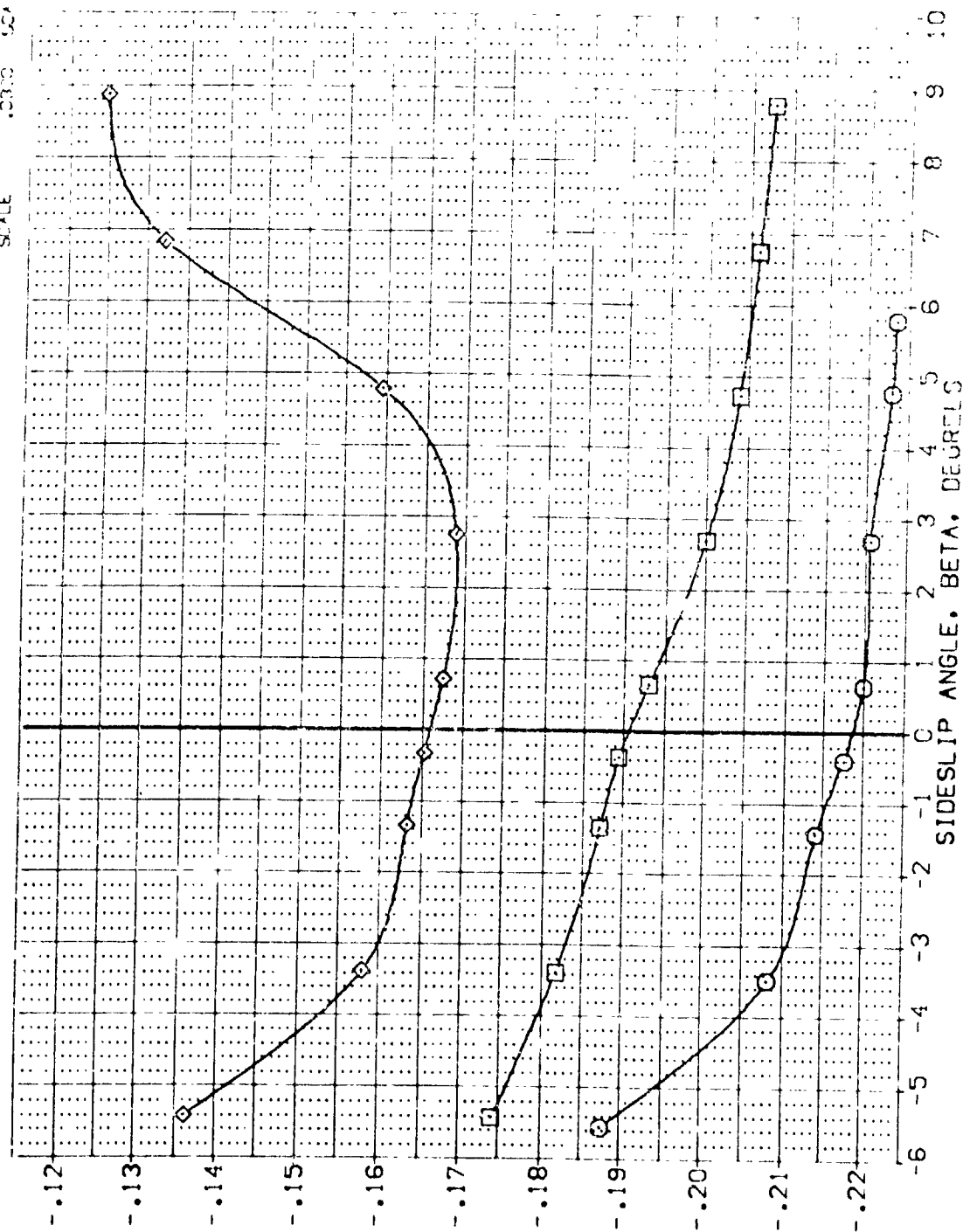


FIG. 34 RUDDER HINGE MOMENTS, -25. DEGREES RUDDER

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOLAP	SPOBRK	REFERENCE INFORMATION
(YK032)	ARC 97-747 CAS38 B C M F VI V	0.000	-25.000	-11.700	55.000	SREF 2.4210 SQ.FT.
(YK033)	ARC 97-747 CAS38 B C M F VI V	10.000	-25.000	-11.700	55.000	LREF 14.2440
(YK034)	ARC 97-747 CAS38 B C M F VI V	20.000	-25.000	-11.700	55.000	BREF 28.1004
						XMRP 32.3010
						YMRP .0000
						ZMRP .0000
						SCALE 11.2500 IN.
						SCALE .0300

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLR

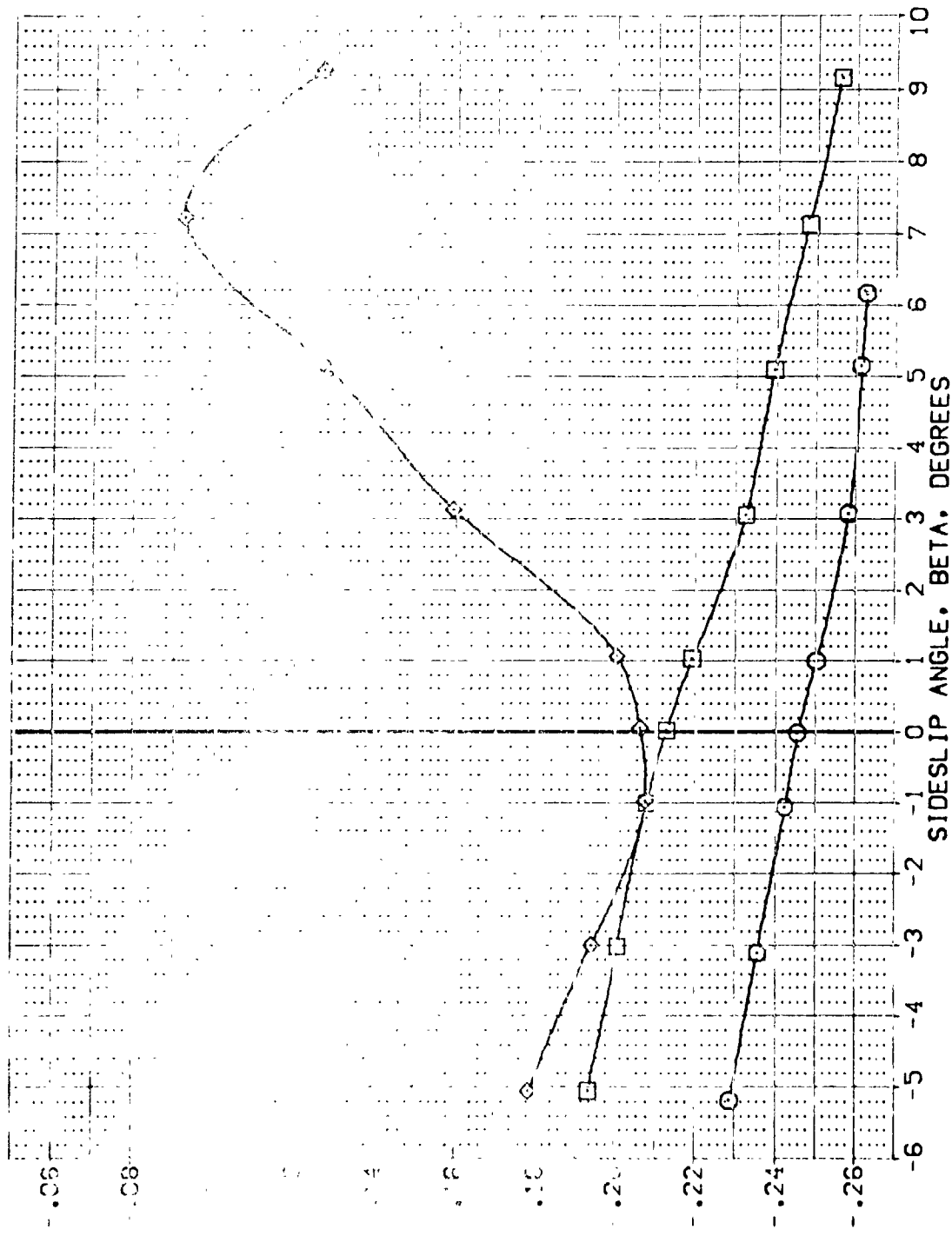


FIG. 34 RUDDER HINGE MOMENTS, -25. DEGREES RUDDER

(M)MACH = 1.60

DATA SET SYMBOL: (YK032) (YK033) (YK034)

CONF: ARC 97-747 OAS38 B C M F V

DESCRIPTION: B C M F V B C M F V B C M F V

ALPHA: 0.000 10.000 20.000

RUDDER: -25.000 -25.000 -25.000

BDF LAP: -11.700 -11.700 -11.700

SFOBRK: 55.000 55.000 55.000

REFERENCE INFORMATION: SRFF 2.4210 LRFF 14.2440 BRFF 38.1004 XMRP 32.3010 ZMRP 0.0000 SCALE 11.0000 11.0000 11.0000

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLR

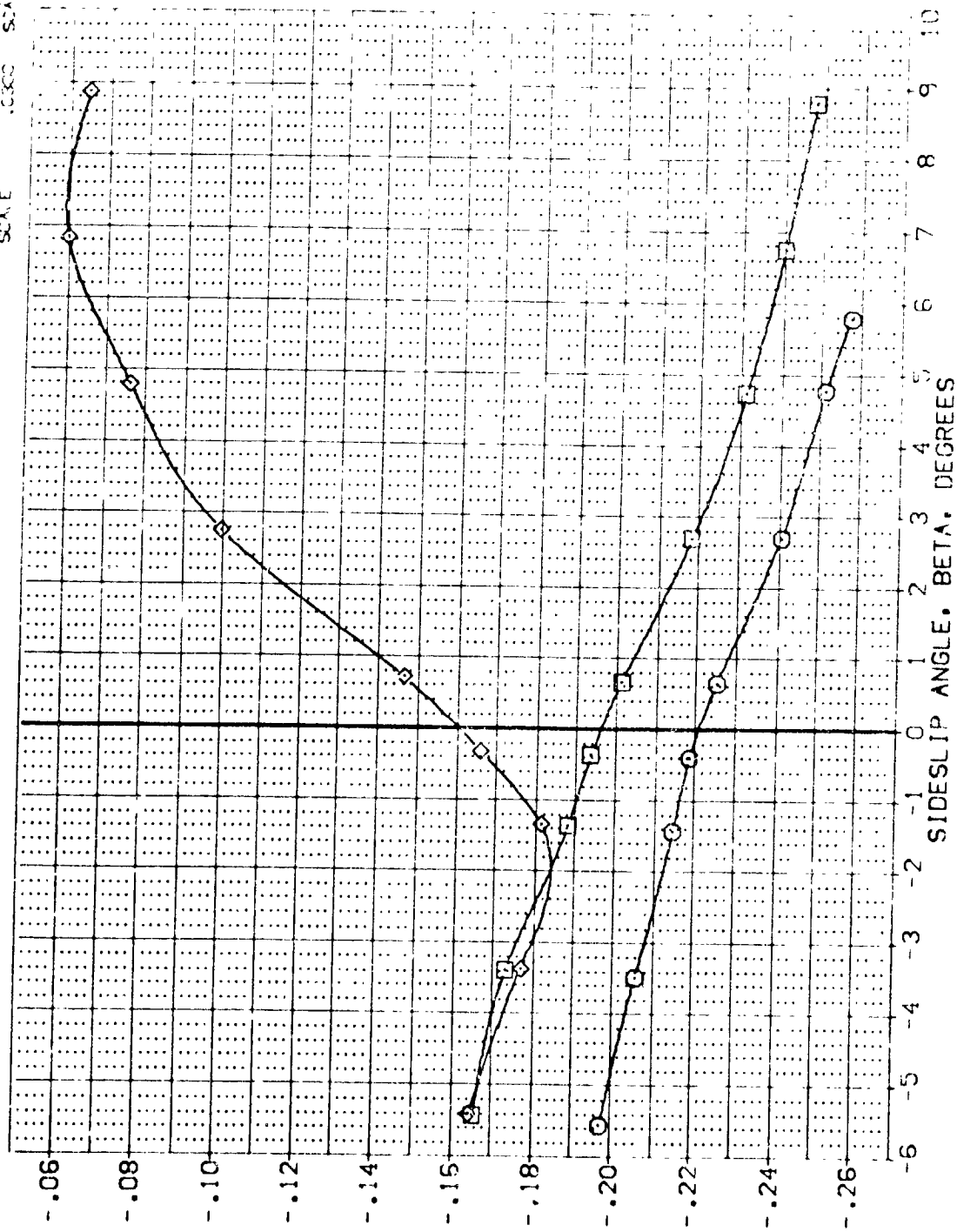
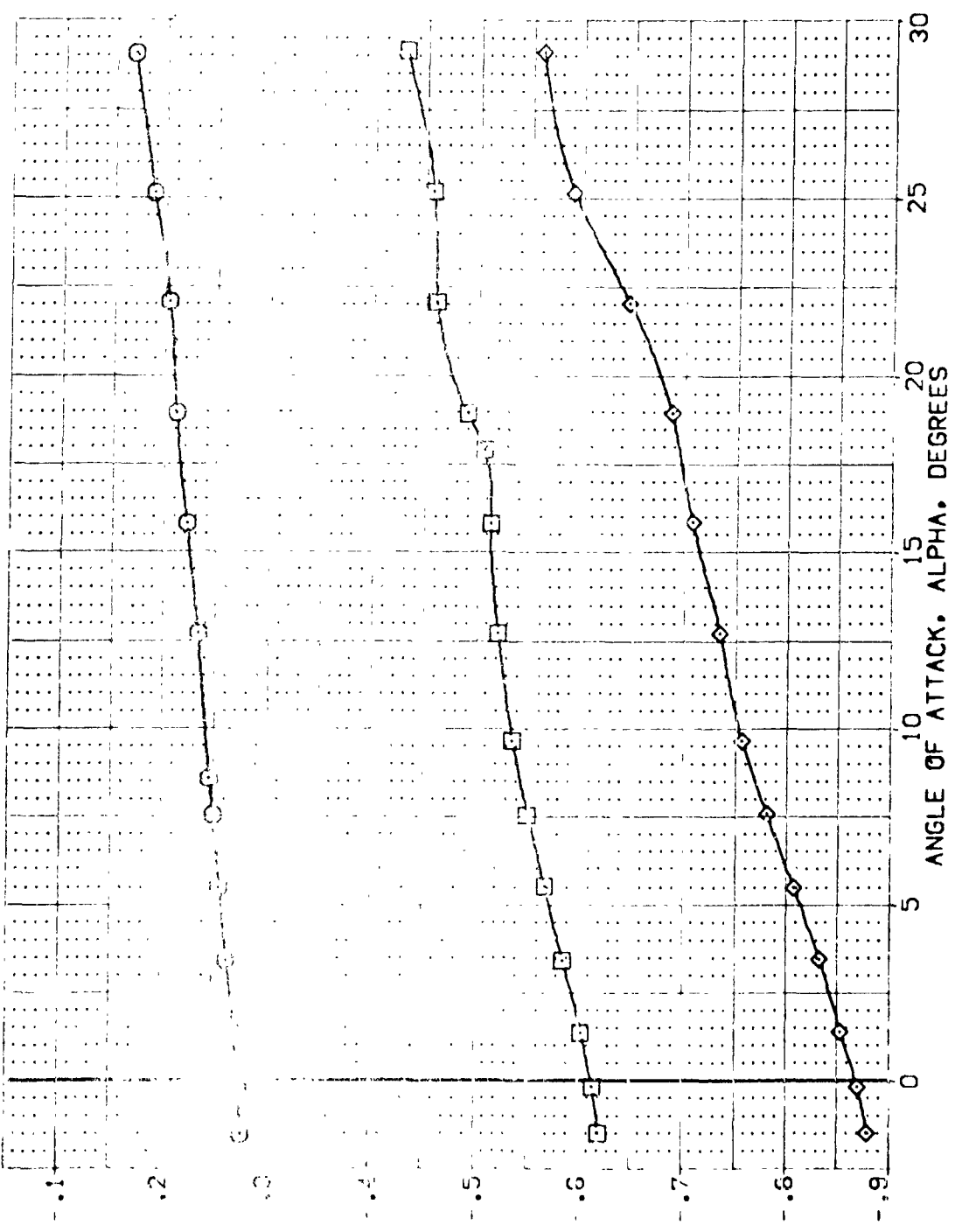


FIG. 34 RUDDER HINGE MOMENTS, -25. DEGREES RUDDER

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	BDF LAP	SPOBRK	REFERENCE INFORMATION
(YEM024)	ARC 97-747 DAS38 B C M F V	.000	.000	-11.700	25.000	SREF 2.4210
(YEM011)	ARC 97-747 DAS38 B C M F V	.000	.000	-11.700	55.000	LREF 14.2440
(YEM038)	ARC 97-747 DAS38 B C M F V	.000	.000	-11.700	85.000	BREF 28.1004
						XMRP 32.3010
						YMRP .0000
						ZMRP 11.2500
						SCALE .0300
						SCALE



SPEED BRAKE HINGE MOMENT COEFFICIENT, CHSB

FIG. 35 SPEEDBRAKE HINGEMOMENTS

(M)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
(YK024)	ARC 97-747 CAS38 B C H F VI V	.000	.000	.11.700	25.000	SREF 2.4210
(YK011)	ARC 97-747 CAS38 B C H F VI V	.000	.000	.11.700	55.000	LREF 14.2440
(YK038)	ARC 97-747 CAS38 B C H F VI V	.000	.000	.11.700	85.000	BREF 28.1004
						YREF 32.3010
						YREF .0000
						ZREF 11.2500
						SCALE .0300

SPEED BRAKE HINGE MOMENT COEFFICIENT, CHSB

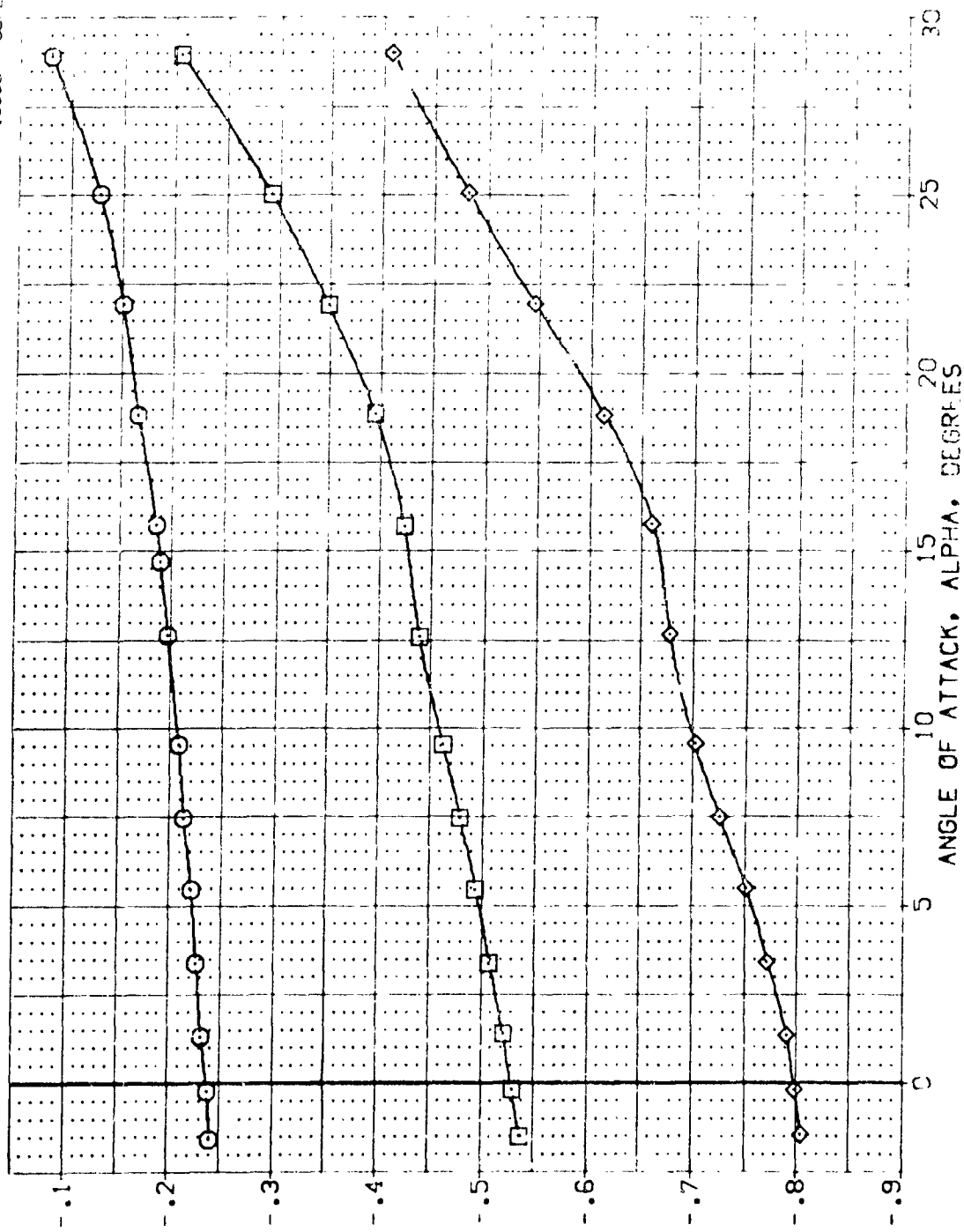


FIG. 35 SPEEDBRAKE HINGEMOMENTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	BOFLAP	SPDBRK	REFERENCE INFORMATION
[YK024]	ARC 97-747 DAS38 B C M F VI V	.000	.000	-11.700	25.000	SREF 2.4210 SQ.FT.
[YK031]	ARC 97-747 DAS38 B C M F VI V	.000	.000	-11.700	55.000	LREF 14.2440 N.
[YK038]	ARC 97-747 DAS38 B C M F VI V	.000	.000	-11.700	85.000	BREF 28.1004 N.
						XMPP 32.3010 N.
						YMPP .0000 N.
						ZMPP 11.2500 N.
						SCALE .0300 SCALE

UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUL

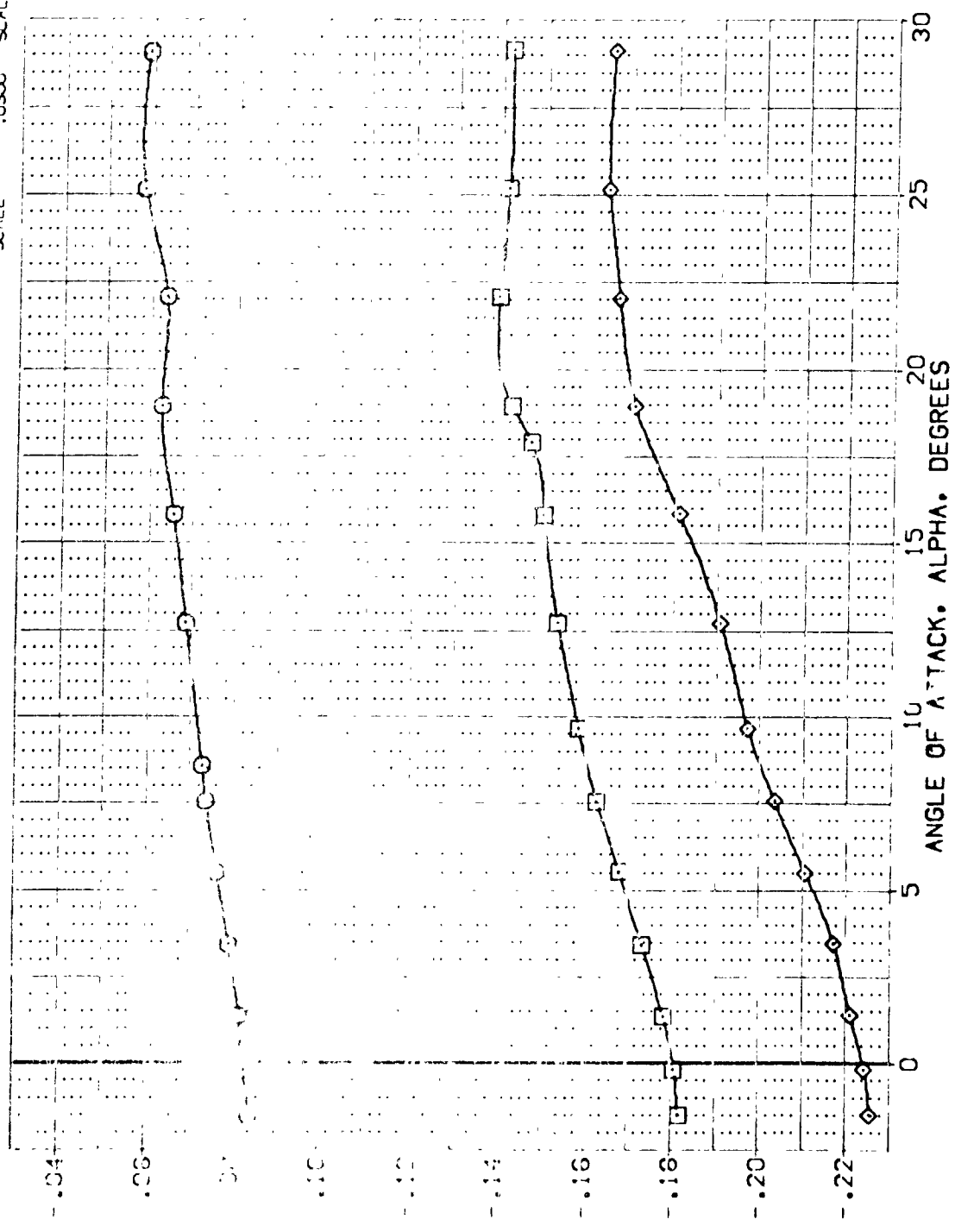


FIG. 35 SPEEDBRAKE HINGEMOMENTS

(A) MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA RUDDER BOFLAP SPEEDBRK REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RUDDER	BOFLAP	SPEEDBRK	REFERENCE INFORMATION
[YK074]	ARC 97-747 CAS38 B C H F V	.000	.000	-11.700	25.000	SREF 2.4210 SC.FT.
[YK075]	ARC 97-747 CAS38 B C H F V	.000	.000	-11.700	55.000	LREF 14.2440 IN.
[YK076]	ARC 97-747 CAS38 B C H F V	.000	.000	-11.700	85.000	BREF 28.1004 IN.
[YK077]	ARC 97-747 CAS38 B C H F V	.000	.000	-11.700	111.2500	XMPP .0000 IN.
[YK078]	ARC 97-747 CAS38 B C H F V	.000	.000	-11.700	111.2500	ZMPP .0000 IN.
[YK079]	ARC 97-747 CAS38 B C H F V	.000	.000	-11.700	111.2500	SCALE .0300

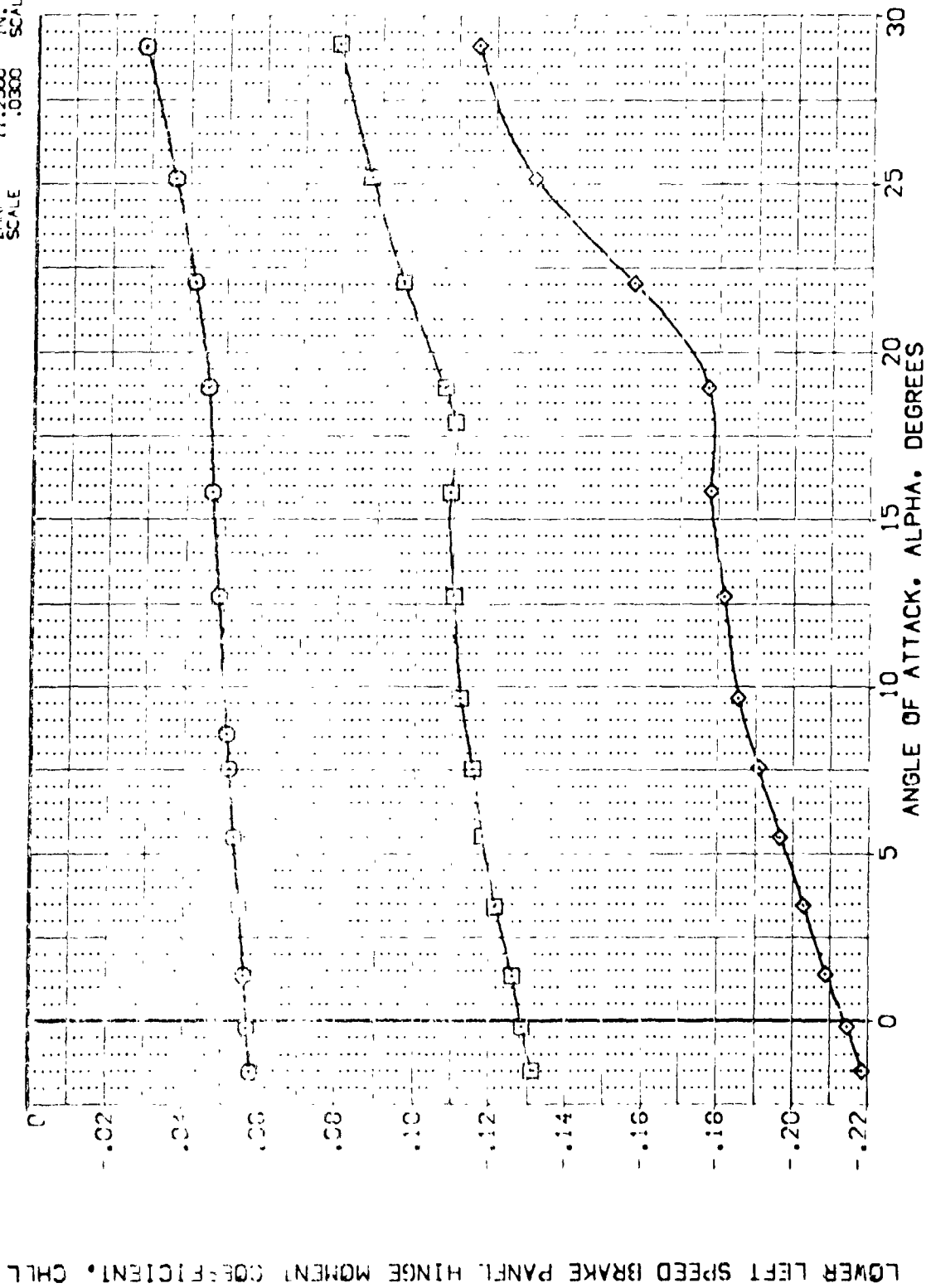


FIG. 35 SPEEDBRAKE HINGEMOMENTS

(M)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION ID

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	REF	REFERENCE INFORMATION ID
[YK024]	ARC 97-747 DAS38 B C M F V I V	2.4210	SC. 1.
[YK011]	ARC 97-747 DAS38 B C M F V I V	14.2440	N.
[YK038]	ARC 97-747 DAS38 B C M F V I V	28.1004	N.
		37.3410	N.
		11.2500	N.
		11.0300	N.
		SCALE	SCALE

BETA RUDDER BDF LAP SPEED BRK

BETA	RUDDER	BDF LAP	SPEED BRK
.000	.000	-11.700	25.000
.000	.000	-11.700	55.000
.000	.000	-11.700	85.000

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

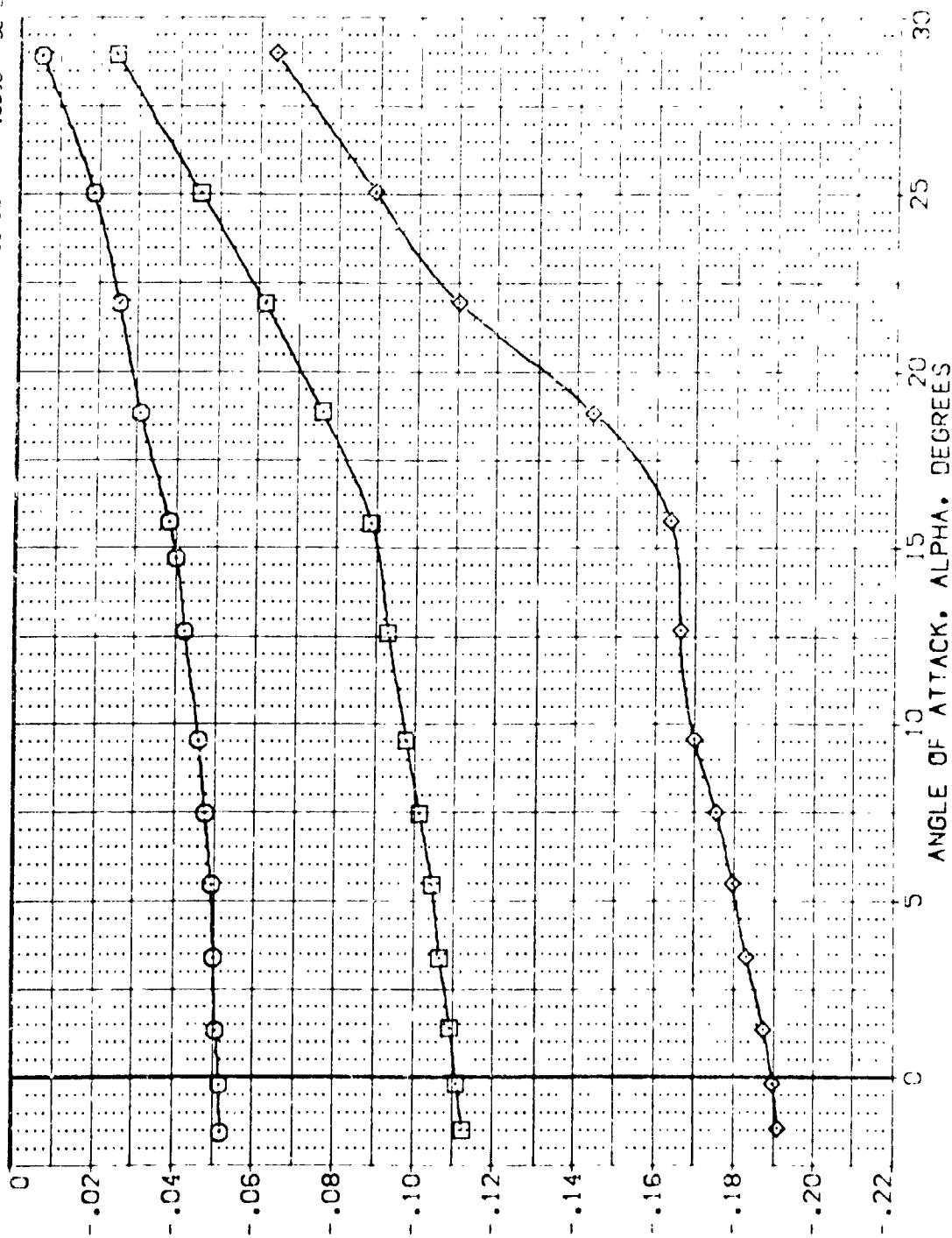


FIG. 35 SPEEDBRAKE HINGEMOMENTS

(B)MAC = 2.00

REF. SYMBOL CONFIGURATION DESCRIPTION
 (4) ARC 97-747 CAS38 B C M F VI V
 (1) ARC 97-747 CAS38 B C M F VI V
 (36) ARC 97-747 CAS38 B C M F VI V

BETA RUDDER BOFLAP SPEEDRK
 .000 .000 .000 .000
 .000 .000 .000 .000
 .000 .000 .000 .000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LREF 14.244C
 BREF 28.1004
 XMRP 32.3010
 YMRP .0000
 ZMRP 11.2500
 SCALE .0300

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

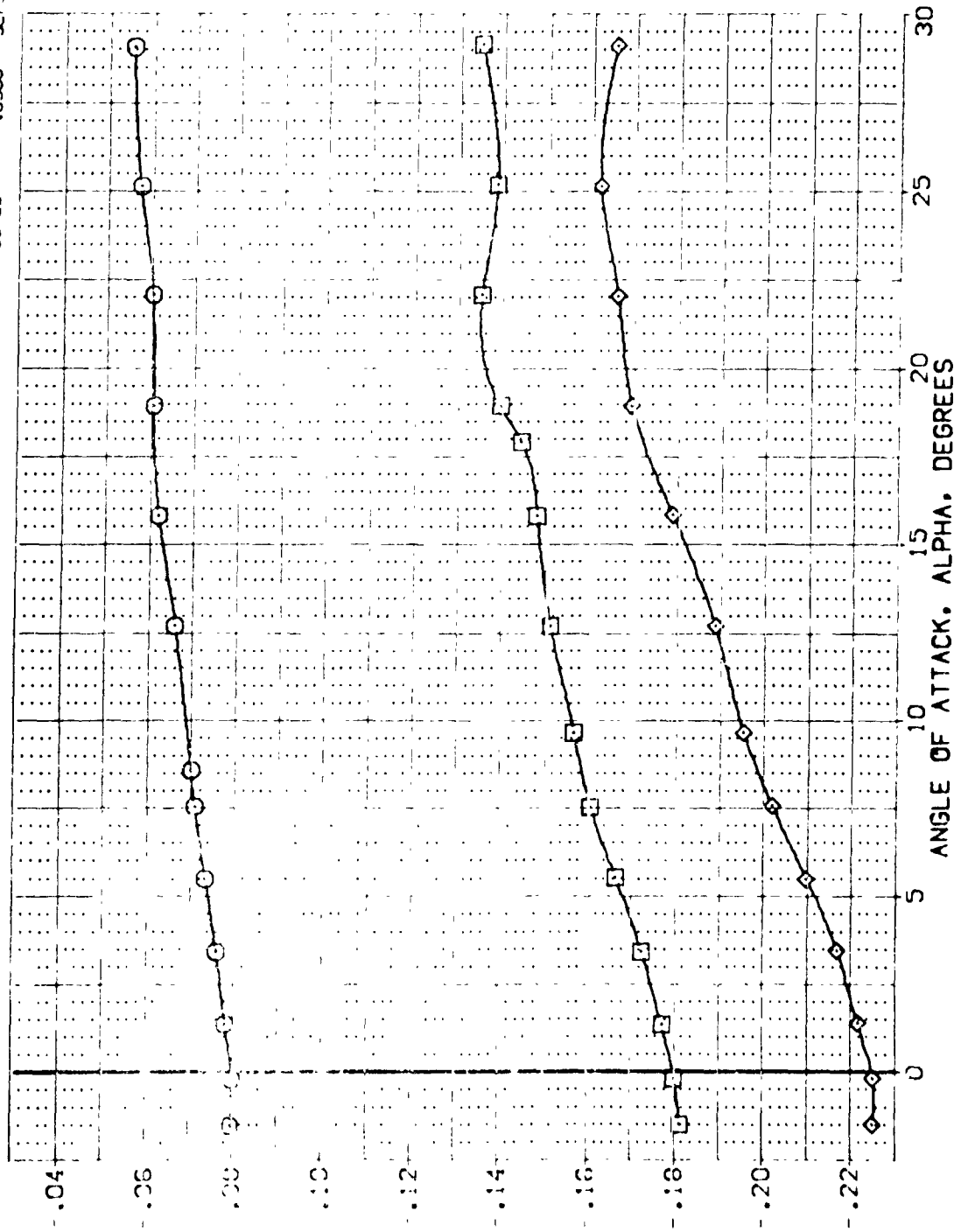


FIG. 35 SPEEDBRAKE HINGEMOMENTS

(A)MACH = 1.60

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

DATA SET SYMBOL: [YK024] [YK038] [YK038]
 CONFIGURATION DESCRIPTION: ARC 97-747 DAS38 B C M F VI V NOM: RN/L
 ARC 97-747 DAS38 B C M F VI V NOM: RN/L
 ARC 97-747 DAS38 B C M F VI V NOM: RN/L
 REFERENCE INFORMATION: SREF 2.4210 SQ.FT.
 LREF 14.2440
 BREF 28.1004
 AREF 37.3500
 YREF 52.000
 ZREF 11.2400
 SCALE 11.0000

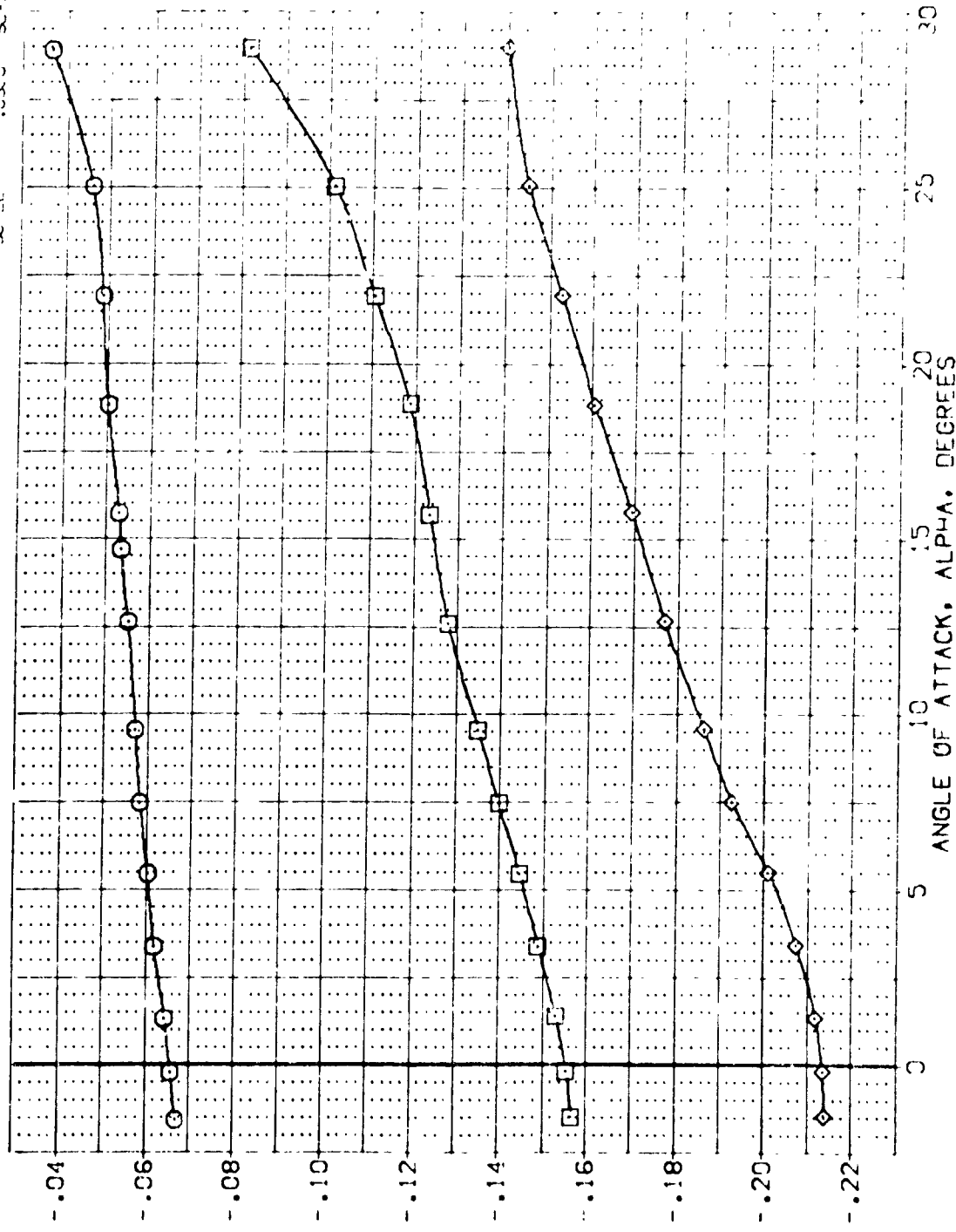


FIG. 35 SPEEDBRAKE HINGEMOMENTS

REMARKS: 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETA RUDDER BDF LAP SPOBRK REFERENCE INFORMATION

(YK024)	ARC 97-747 0A538 B C M F V	.000	.000	-11.700	25.000	SREF 2.4210
(YK011)	ARC 97-747 0A538 B C M F V	.000	.000	-11.700	55.000	LREF 14.2440
(YK038)	ARC 97-747 0A538 B C M F V	.000	.000	-11.700	85.000	BREF 28.1004
						XMRP 32.3010
						YMRP .0000
						ZMRP .0000
						SCALE 11.7000
						SCALE .0300

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CLRL

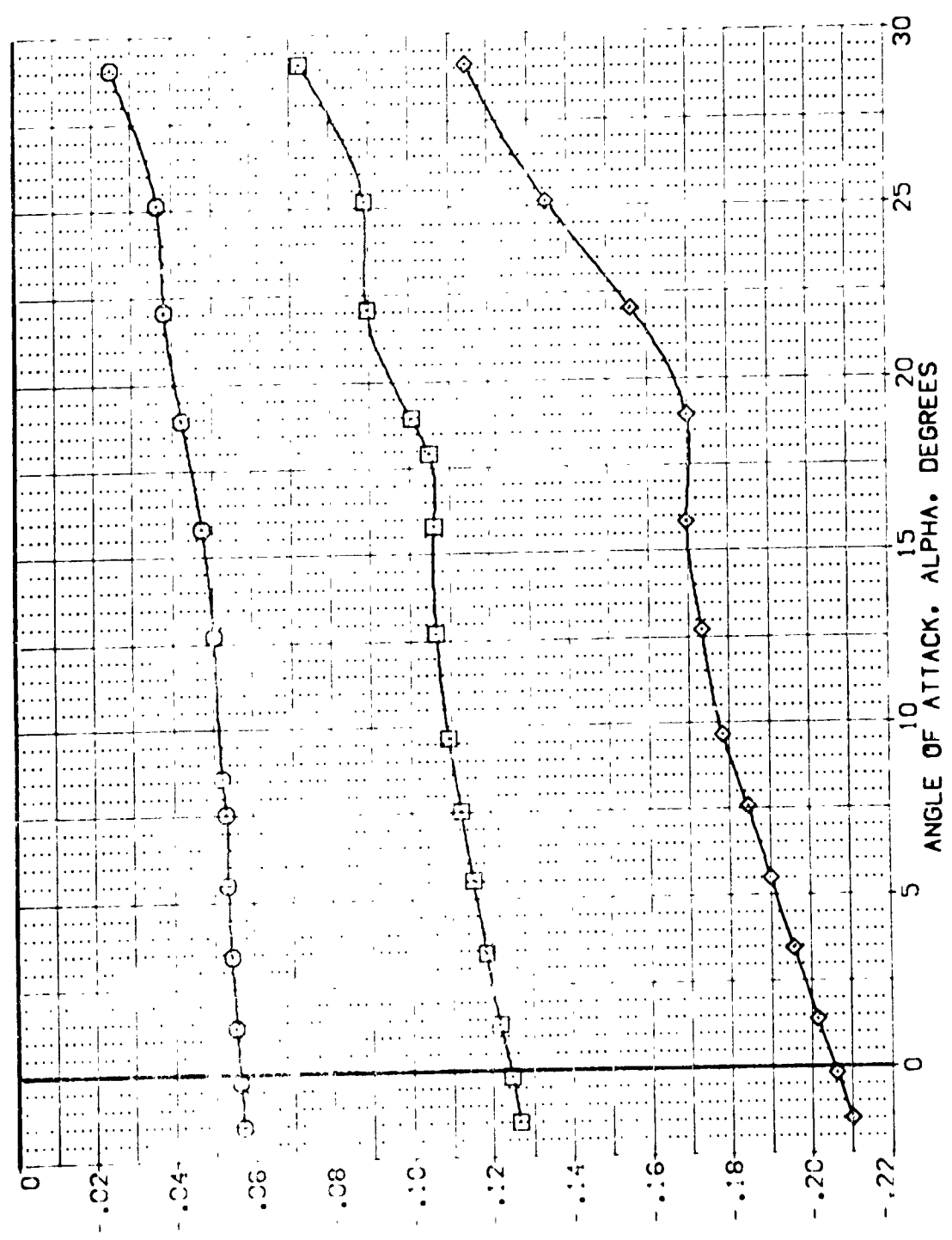


FIG. 35 SPEEDBRAKE HINGEMOMENTS

(A)MACH = 1.60

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLR



(B)WAC = 2.00

PAGE 402



REFERENCE INFORMATION	
SREF	2,4210
CR	14,2440
BREF	28,1004
YREF	32,9010
YMOD	0000
YMOD	11,2500
SCALE	1,000
SCALE	

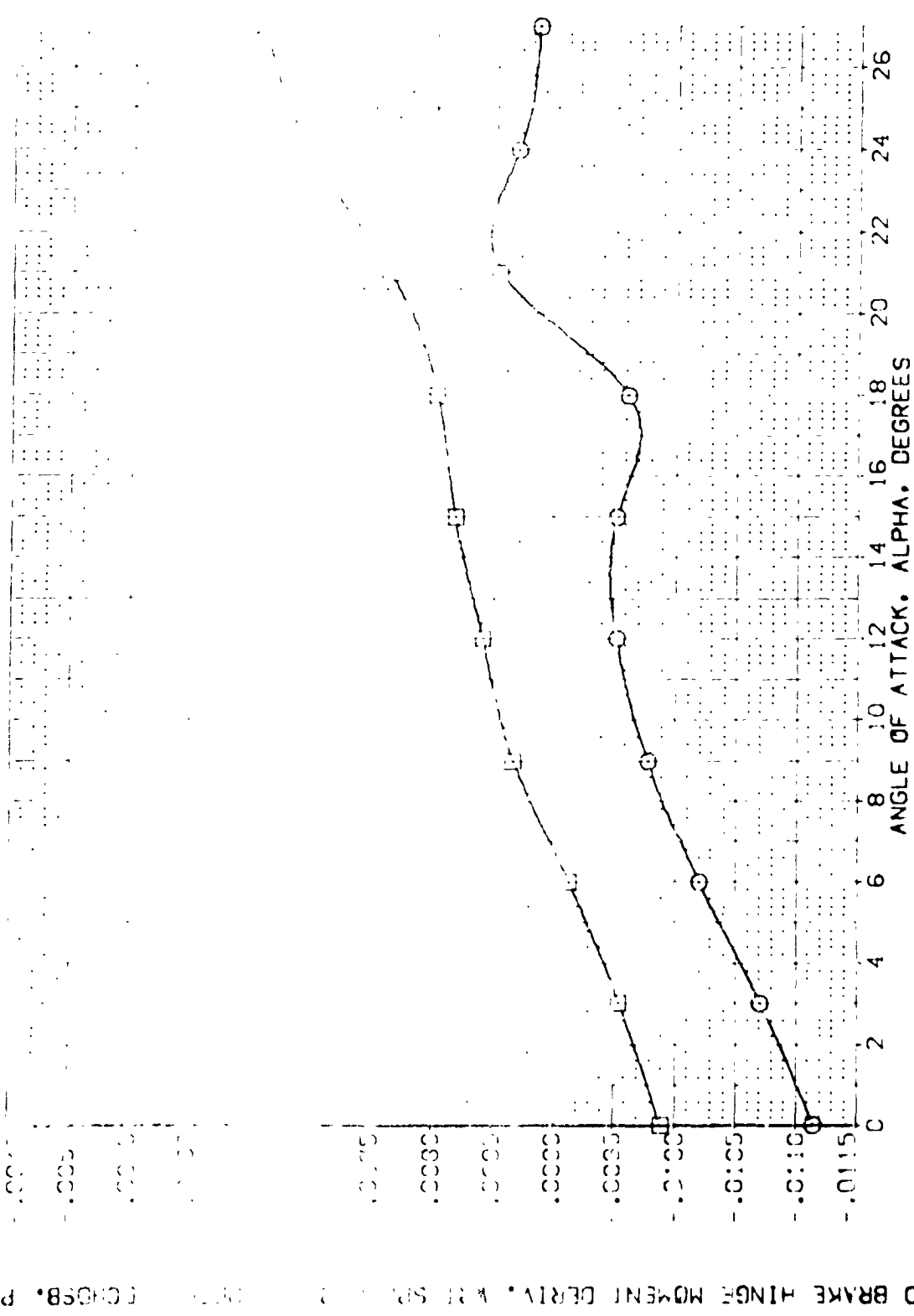


FIG. 35 SPEEDBRAKE HINGEMENTS

$$\{A, \psi(A)\} = 1.50$$

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	REF	SPREF	SCALE
(VEK011)	ARC 97-747 0A538 B C M F V I V	REF	14.2440	14.2440
(VEN038)	ARC 97-747 0A538 B C M F V I V	REF	78.004	78.004
		REF	32.3010	32.3010
		REF	11.7500	11.7500
		REF	0.0300	0.0300

SO. FT. 14.2440 78.004 32.3010 11.7500 0.0300

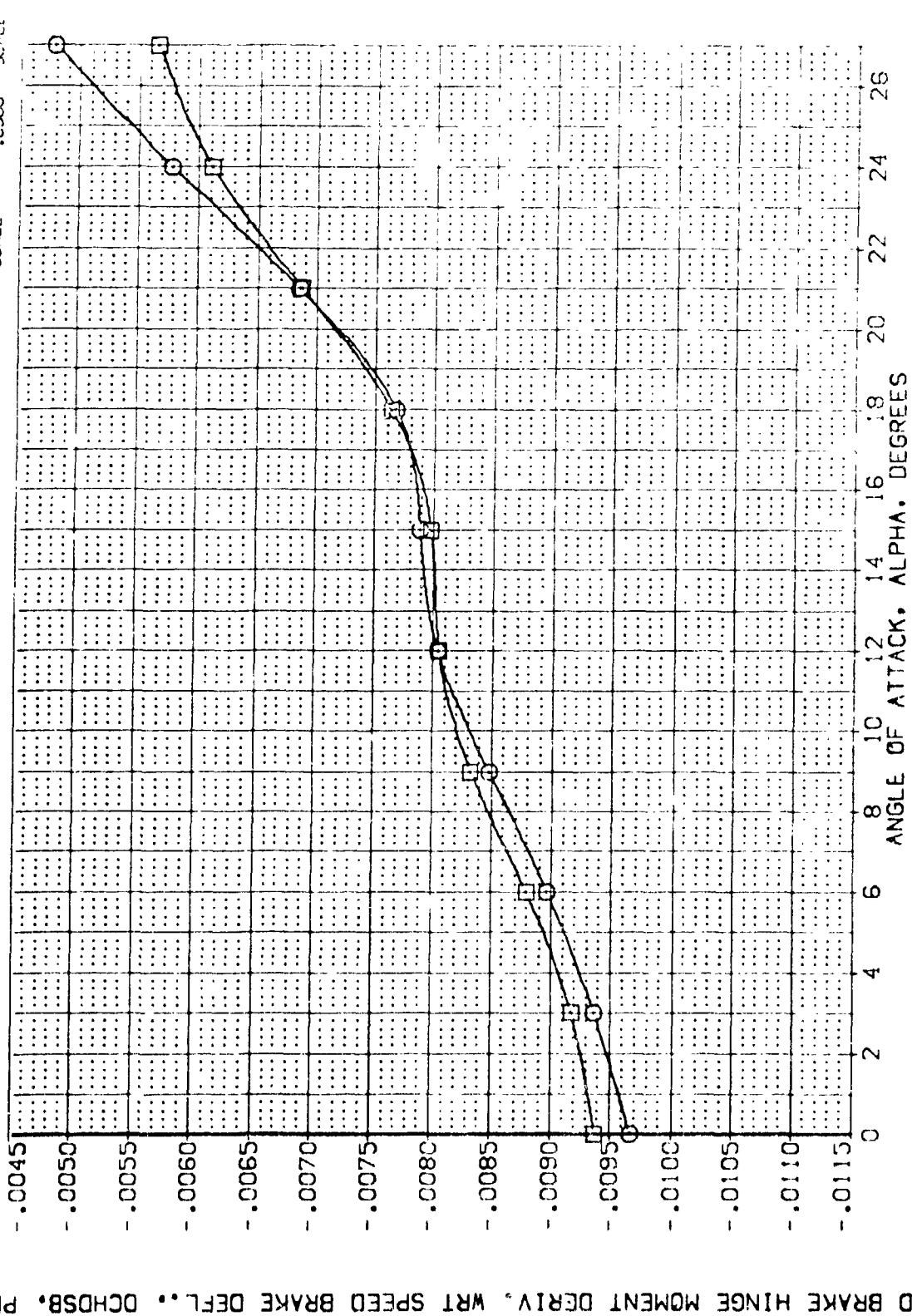


FIG. 35 SPEEDBRAKE HINGEMENTS

(B)MACH = 2.00

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	.000	ELEVON	BETA	AILRON	SREF
		SPOBRK	BOFLAP	DEK005	REF
		ELEV-L	RUDER	DEK041	REF
			ELEV-R		XREF
					YREF
					ZREF
					SCALE
					SC.FT.

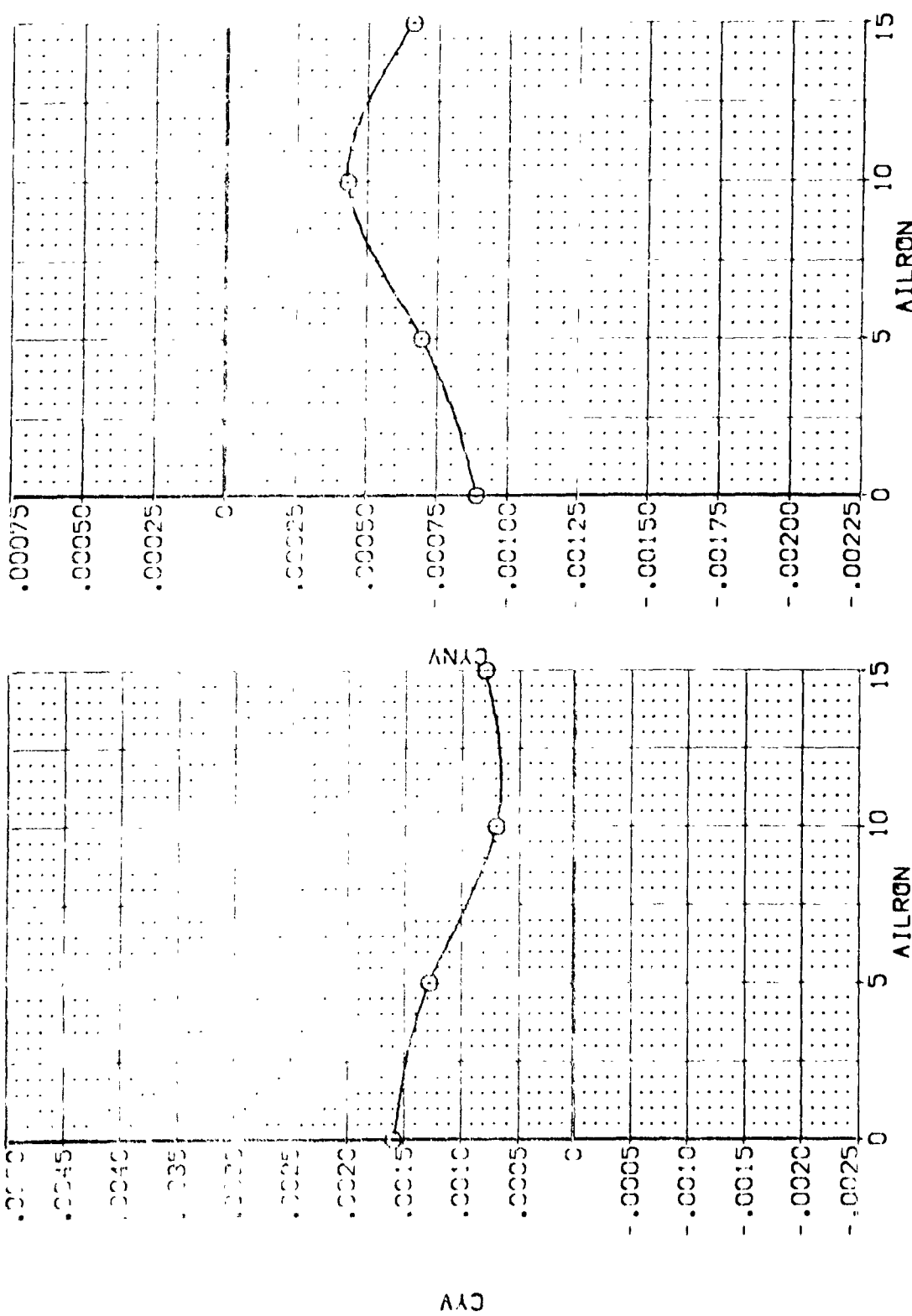


FIG. 36 EFFECT OF AILERON DEFLECTION ON VERTICAL TAIL

SYMBOL
O

ALPHA
10.000

MACH
ELEVON
SPOBRK
ELEV-L

PARAMETRIC VALUES
1.600 BETA
-10.000 BOFLAP
55.000 RUDDER
-10.000 ELEV-R

.000 DATASET
-11.700 DEK002
.000 DEK021
-10.000

DATA SOURCE
AILRON
.000
10.000

DATASET
DEK005
DEK044

AILRON
5.000
15.000

REFERENCE INFORMATION
2.4210 SQ.FT.
14.2443
28.1004
32.3010
11.7500
10.800
SCALE

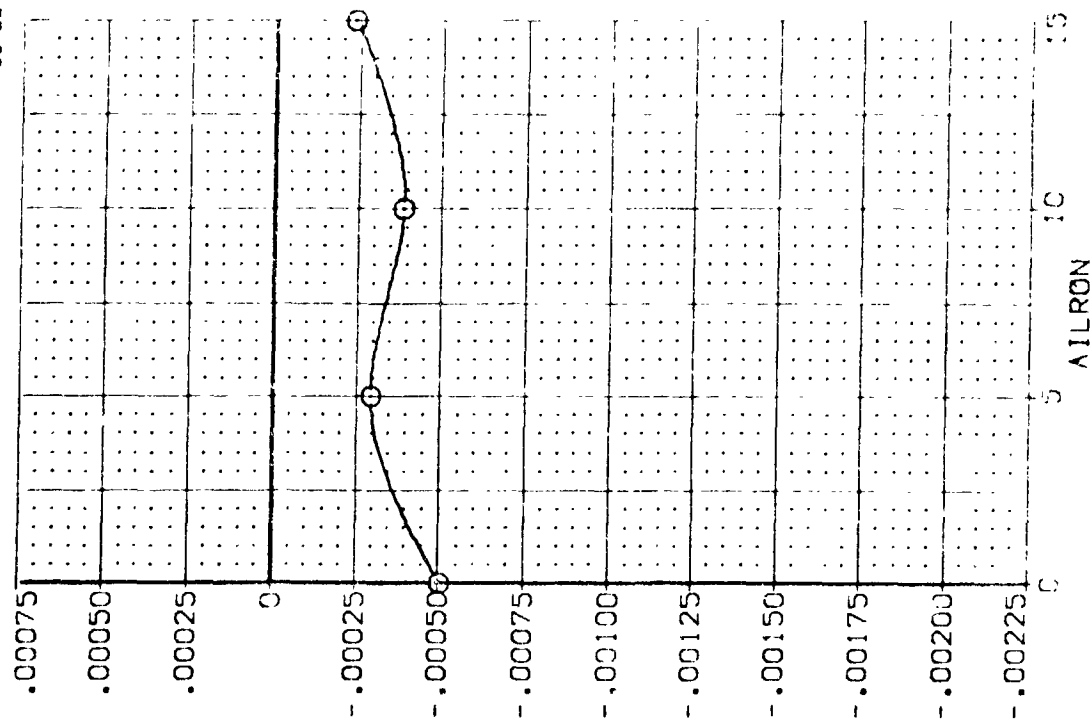
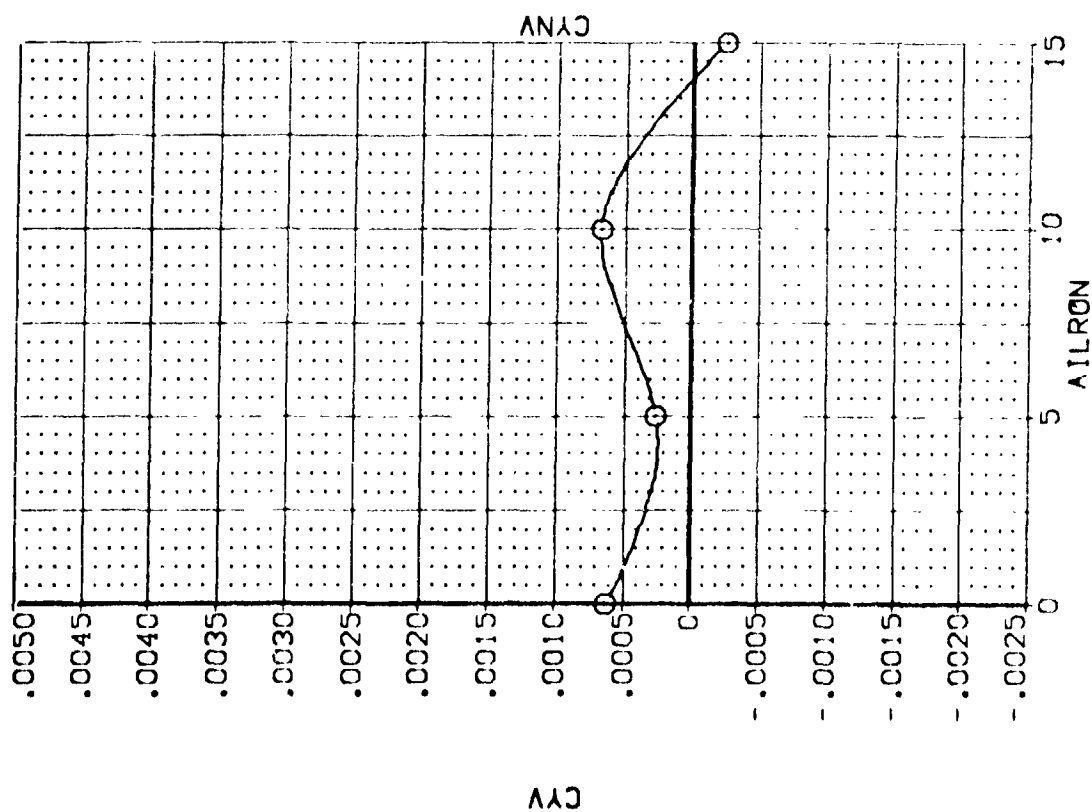


FIG. 36 EFFECT OF AILERON DEFLECTION ON VERTICAL TAIL

ARC 97-747 0A53B 8 C M F W1 V NOM. RN/L (DEK002)

SYMBOL
O

ALPHA
20.000

MACH
ELEVON
SPDRK
ELEV-L

PARAMETRIC VALUES
1.600 BETA
-10.000 BDFLAP
55.000 RUDDER
-10.000 ELEV-R

DATA SOURCE
AILRON
10.000
DEK002
DEK021

DATA SET
AILRON
5.000
DEK005
DEK044

REFERENCE INFORMATION
SREF
LREF
BREF
XMRP
YMRP
ZMRP
SCALE

2.4210 SQ. FT.
14.2440
28.1004
32.3010
.0000
11.2500
.0300

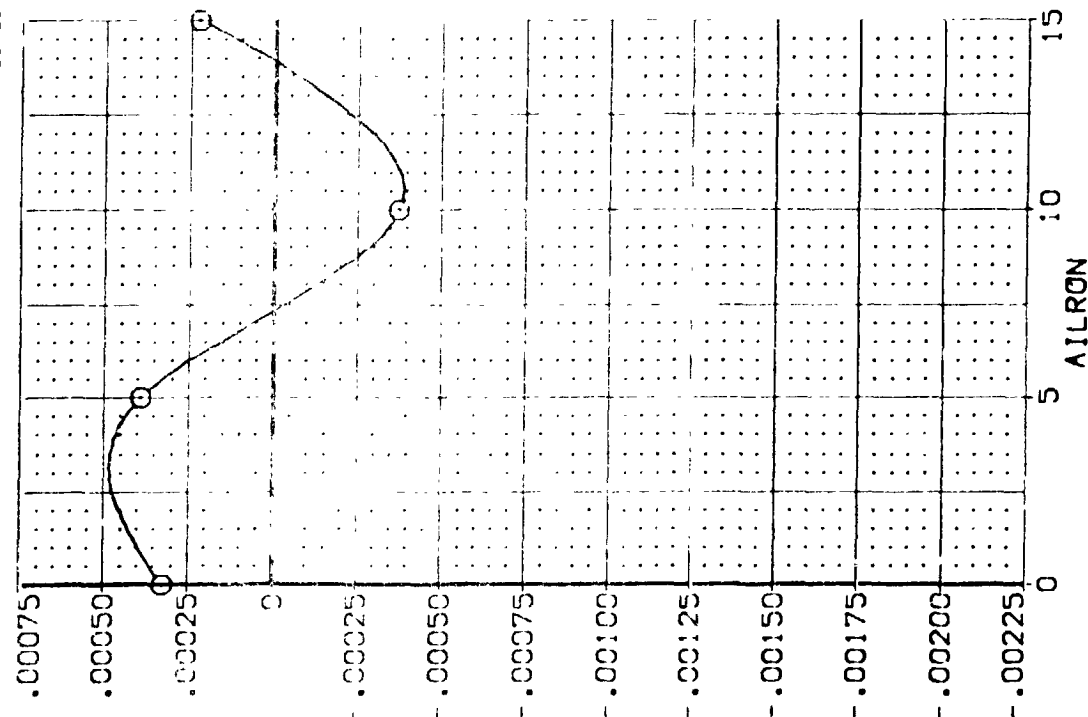
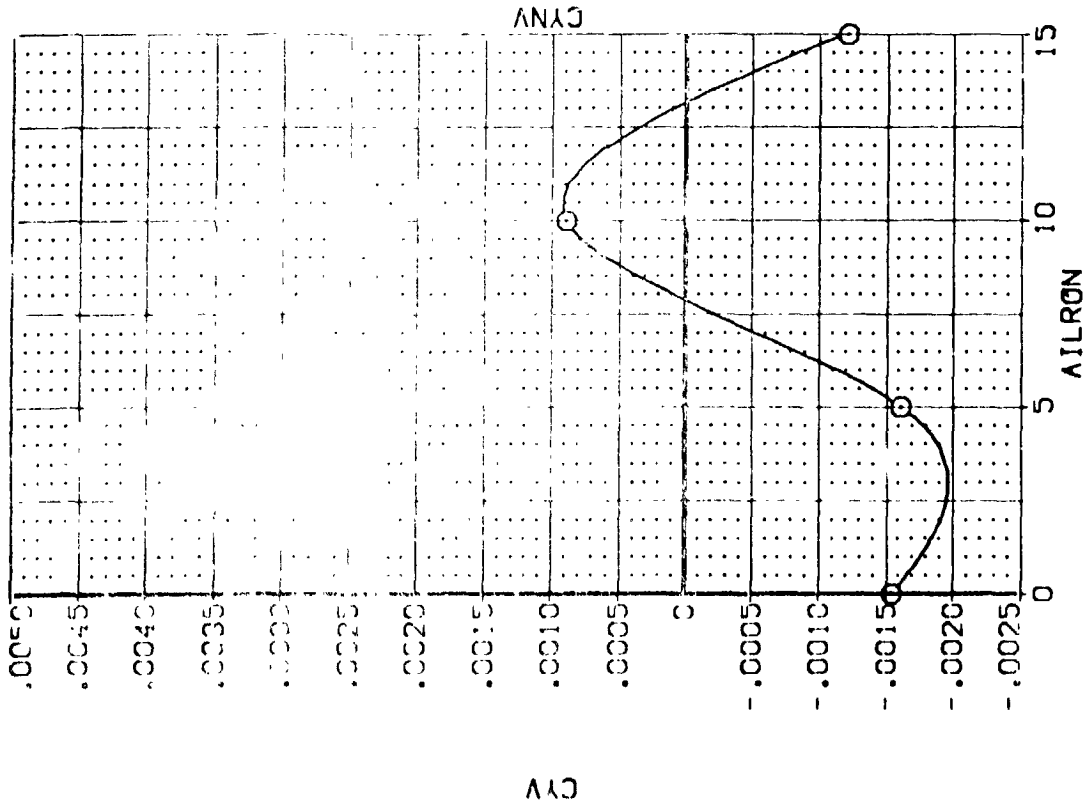


FIG. 36 EFFECT OF AILERON DEFLECTION ON VERTICAL TAIL

SYMBOL
○

ALPHA
.000

MACH
ELEVON
SPOBRK
ELEV-L

PARAMETRIC VALUES
2.000 BETA
-10.000 BOFLAP
55.000 RUDDER
-10.000 ELEV-R

.000 DATASET
-11.700 DEK002
.000 DEK021
-10.000

DATA SOURCE
AILRON
.000
10.000

DATASET
DEK005
DEK044

AILRON
5.000
15.000

REFERENCE INFORMATION
SREF
REF
REF
YMRP
ZMRP
SCALE
2.4210
14.2440
28.1004
32.3010
.0000
11.2500
.0300

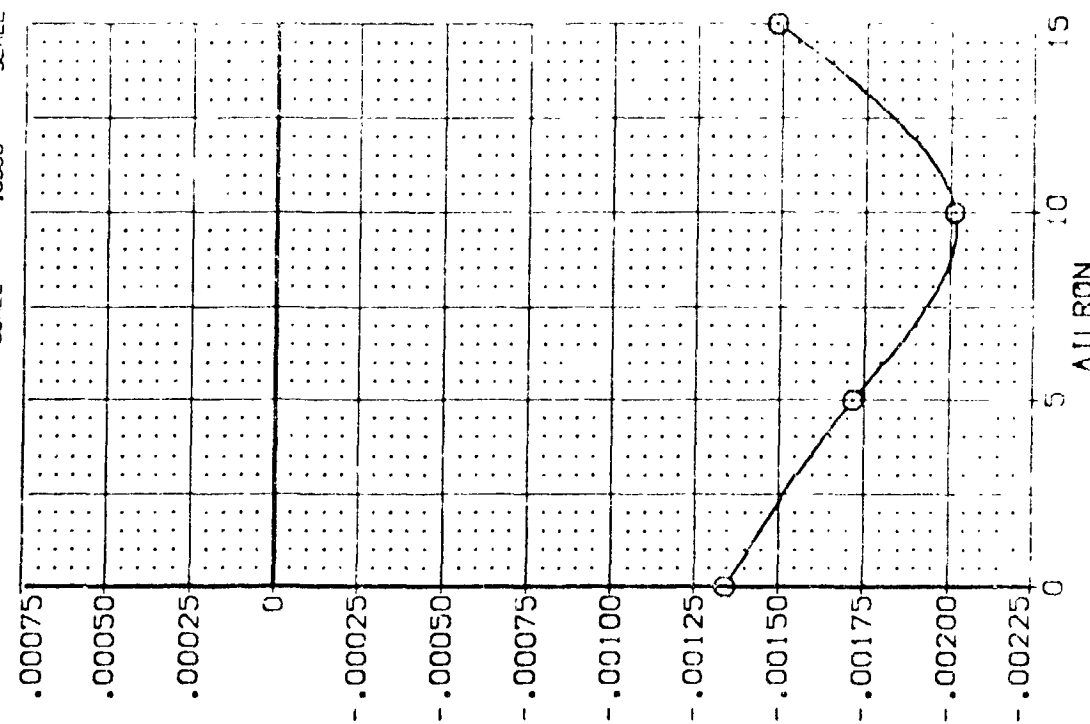
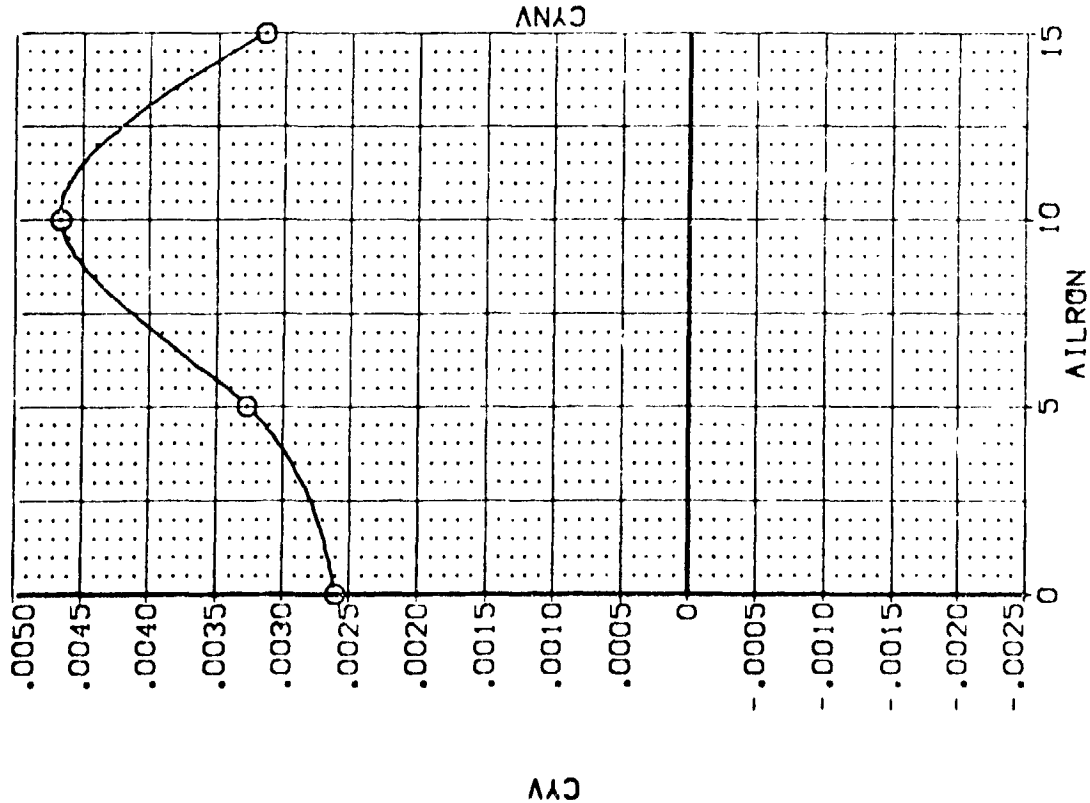


FIG. 36 EFFECT OF AILERON DEFLECTION ON VERTICAL TAIL

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	10.000	ELEVON	2.000 BETA	AILRON	2.4210 SC.FT.
		ELEVON	-10.000 BOFLAP	DEK005	14.244C
		SPOILER	55.000 RUDDER	DEK044	28.100A
		ELEV-L	-10.000 ELEV-R		32.301C
					11.2500
					SCALE
					SCALE

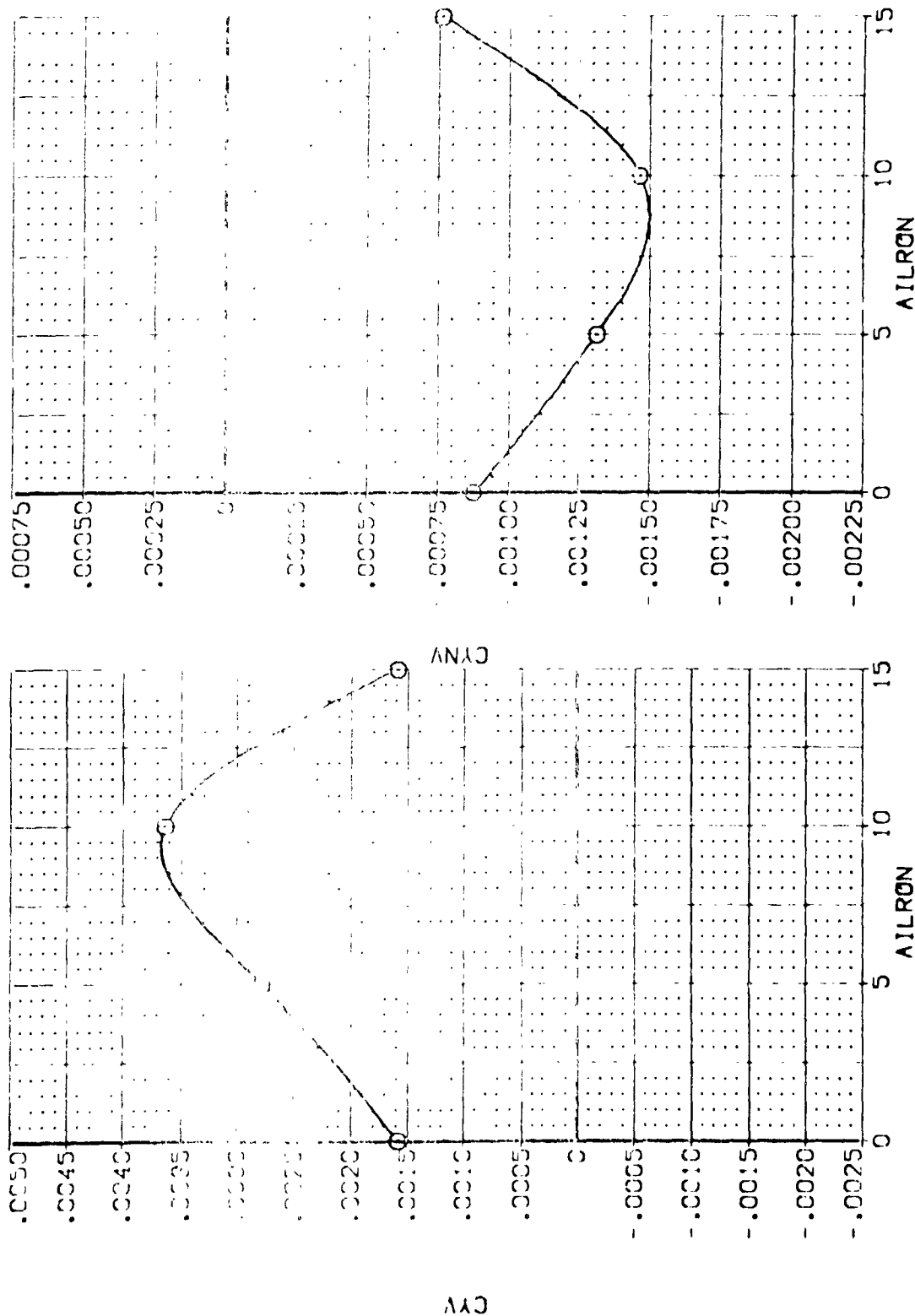


FIG. 36 EFFECT OF AILERON DEFLECTION ON VERTICAL TAIL

SYMBOL
○

ALPHA
20.000

MACH
ELEVON
SPOBRK
ELEV-L

PARAMETRIC VALUES
2.000 BETA
-10.000 BOFLAP
55.000 RUDDER
-10.000 ELEV-R

DATA SOURCE
AILRON
10.000

DATASET
DEK005
DEK044

AILRON
5.000
15.000

REFERENCE INFORMATION
SREF 2.4210
LREF 14.2440
BREF 28.1004
XREF 32.3010
YREF .0000
ZREF .0000
SCALE .0300

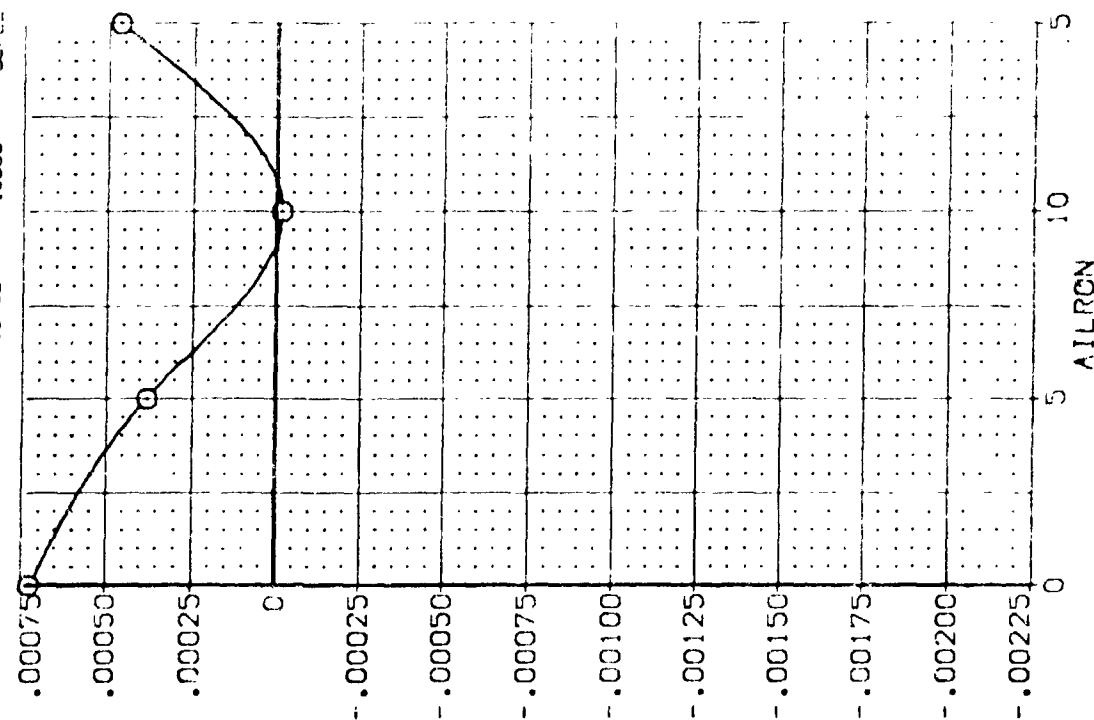
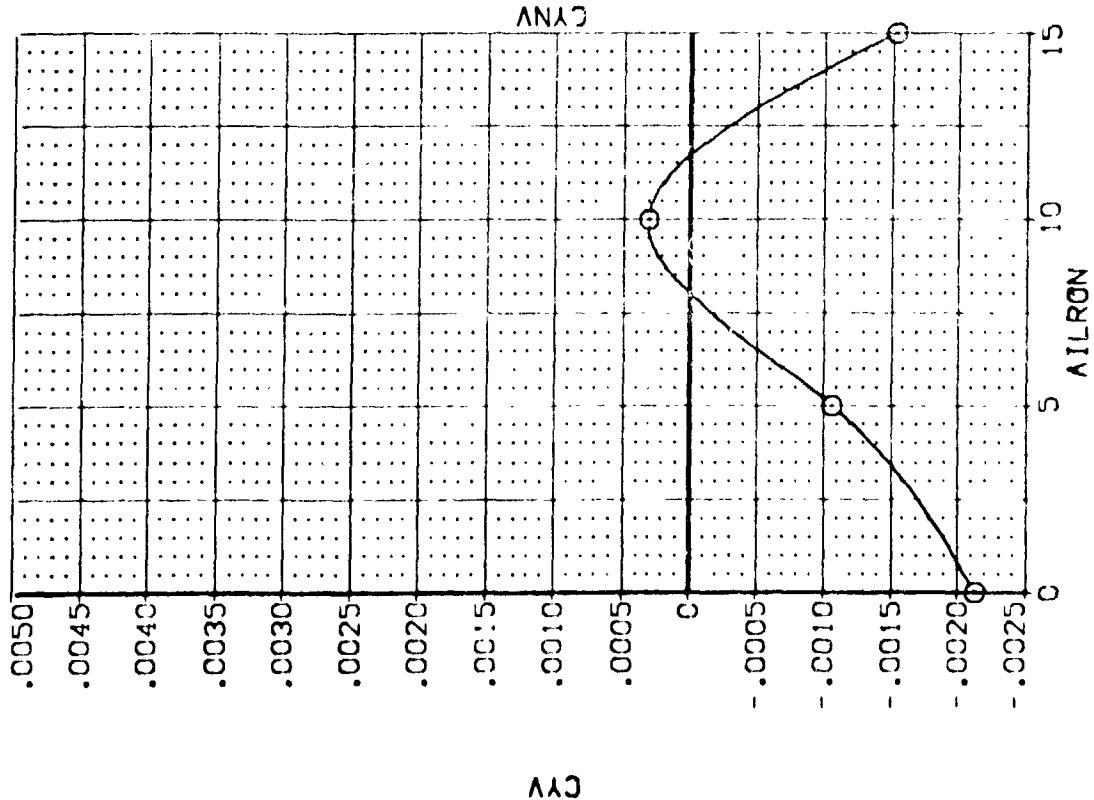


FIG. 36 EFFECT OF AILERON DEFLECTION ON VERTICAL TAIL

SYMBOL

ALPHA
0.000
10.000
20.000

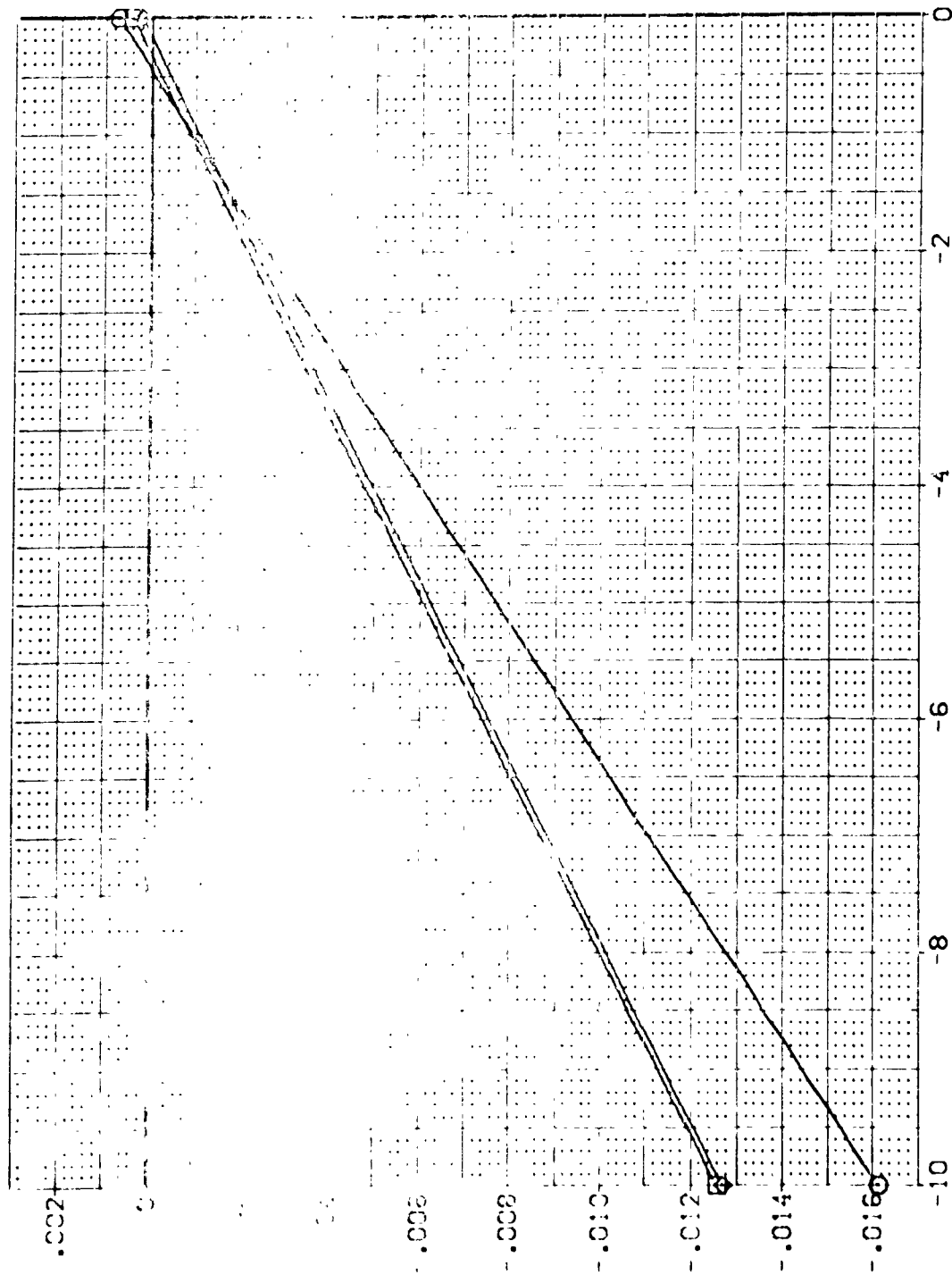
WACH
ELEVON
BOFLAP
ELEV-L

PARAMETRIC VALUES
1.500 BETA
.000 AILRON
-11.700 SPEEDRK
.000 ELEV-R

.000
.000
25.000
.000

SREF
LREF
BREF
XMRP
YMRP
ZMRP
SCALE

REFERENCE INFORMATION
2.4210 SQ.FT.
14.2440
28.1004
32.3010
0.0000
11.2500
0.0000



RUDDER DEFLECTION ANGLE, RUDDER, DEGREES

FIG. 37 EFFECT OF RUDDER DEFLECTION ON VERTICAL TAIL, SPEEDBRAKE = 25 DEGREES

SYMBOL
 ◇
 □
 ○

ALPHA	MACH	PARAMETRIC VALUES
.000	2.000	BETA .000
10.000	ELEVON	.000 AIRLIN
20.000	BOFLAP	-11.700 SPOBRK 25.000
	ELEV-L	.000 ELEV-R

REFERENCE INFORMATION	
SREF	2.4210
LREF	14.2440
BREF	28.1004
XMRP	22.3010
YMRP	.0000
ZMRP	11.2500
SCALE	.0300

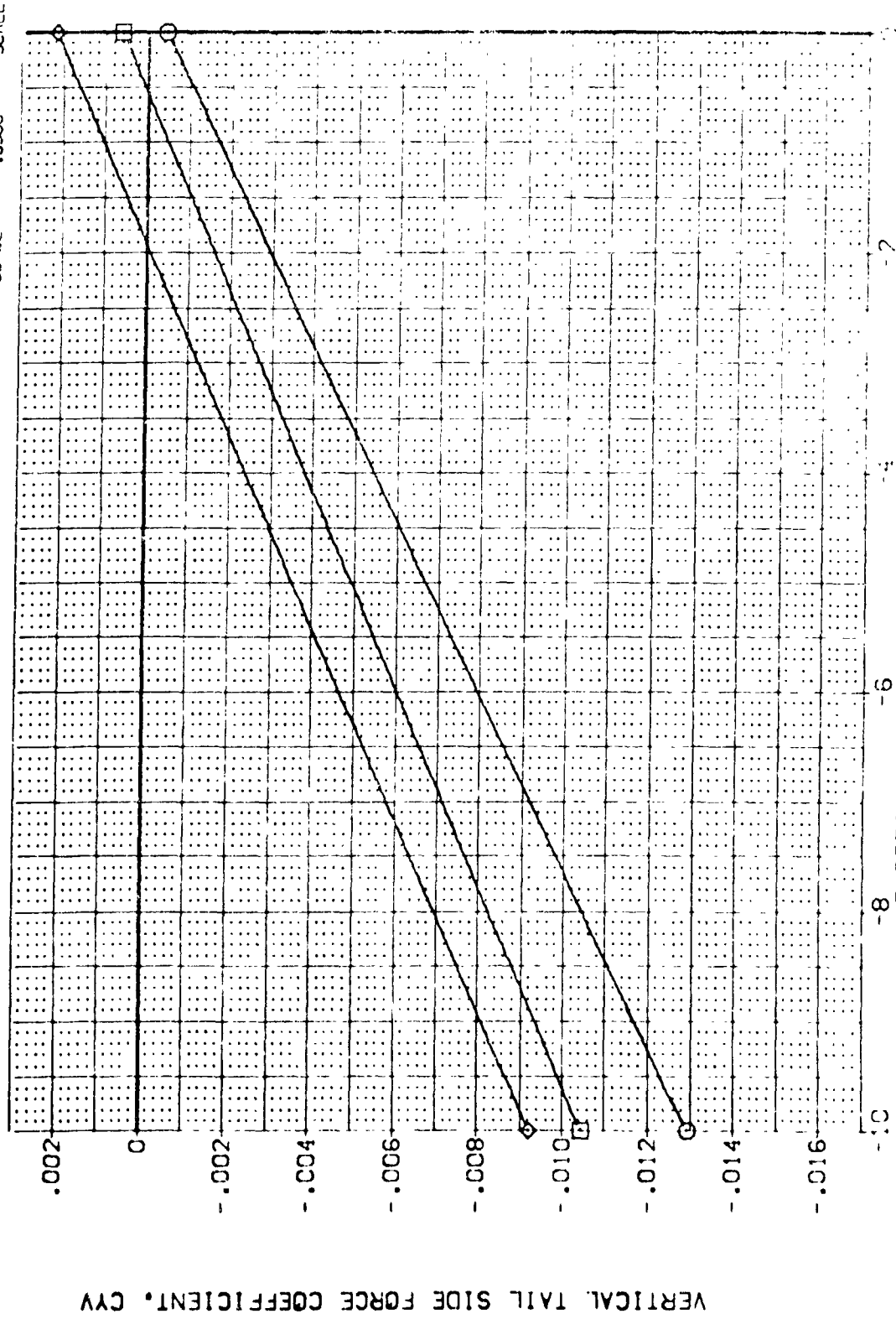


FIG. 37 EFFECT OF RUDDER DEFLECTION ON VERTICAL TAIL, SPEEDBRAKE = 25 DEGREES

ARC 97-747 0A53B B C M F W1 V NOM. RN/L (DEK035)

SYMBOL

PARAMETRIC VALUES

ALPHA
.000
10.000
20.000

MACH
ELEVON
BOFLAP
ELEV-L

BETA
AILLON
SPOBRK
ELEV-R

.000
.000
-11.700
.000

.000
.000
25.000
.000

REFERENCE INFORMATION

SREF 2.4210
LREF 14.2440
BREF 28.1004
VREF 32.3010
ZREF .0000
SCALE 11.2500
SCALE .0300

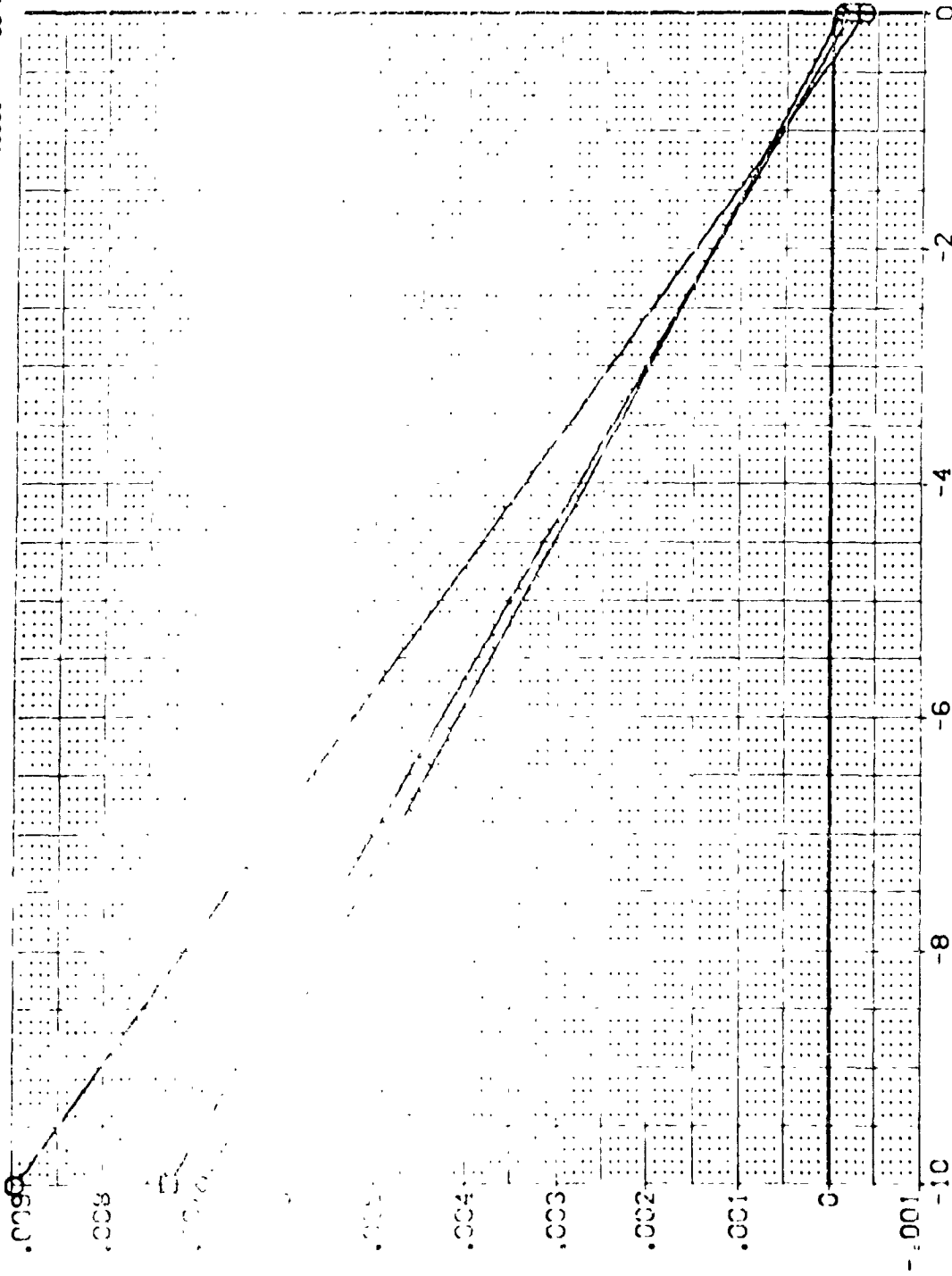


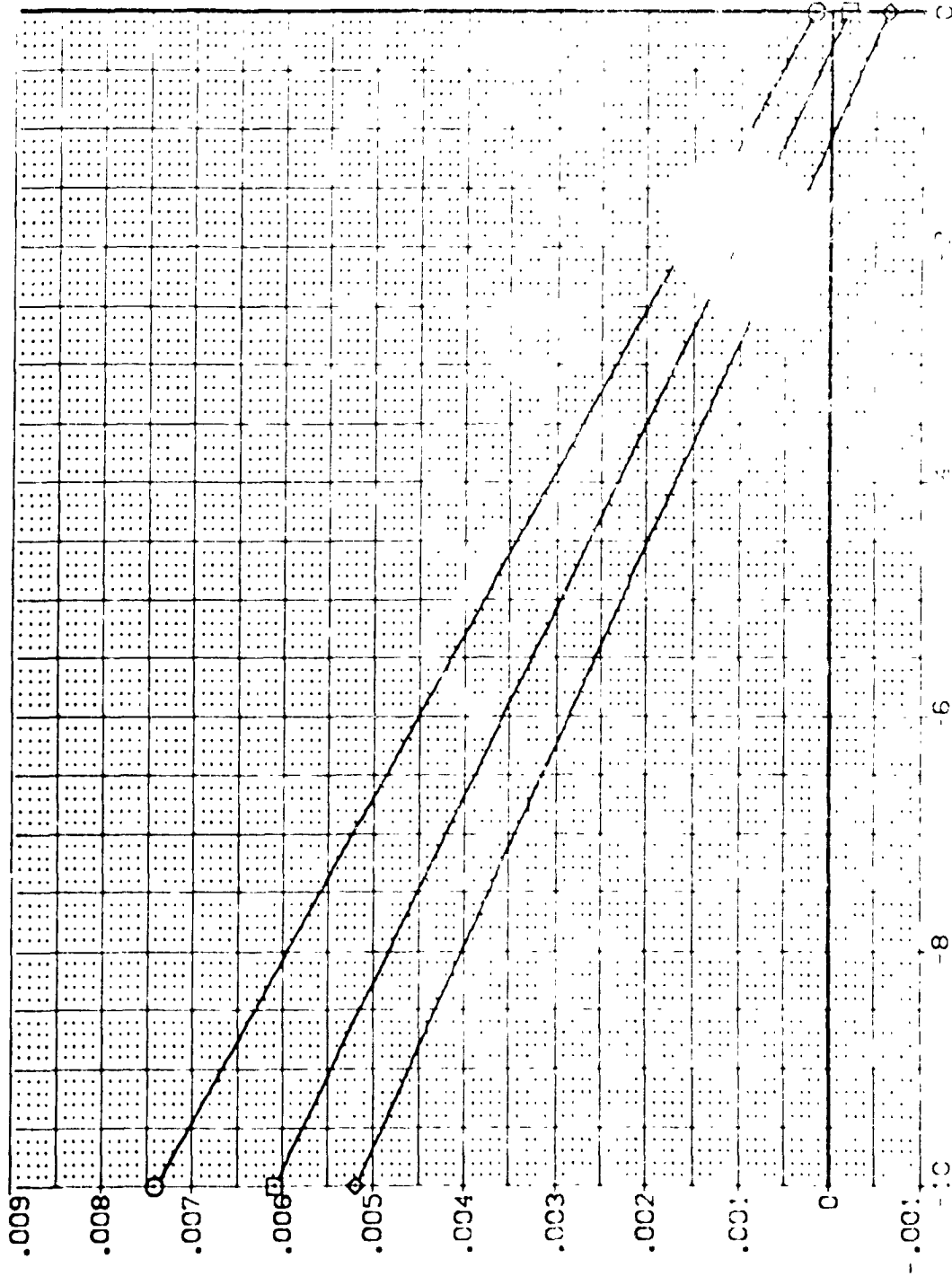
FIG. 37 EFFECT OF RUDDER DEFLECTION ON VERTICAL TAIL, SPEEDBRAKE = 25 DEGREES

SYMBOL
○ □ ◇

ALPHA
.000
10.000
20.000

PARAMETRIC VALUES
MACH 2.000
ELEVON .000
BDELAP -11.700
ELEV-L .000
BETA .000
AILRON .000
SPOBRK 25.000
ELEV-R .000

REFERENCE INFORMATION
SREF 2.4210
LREF 14.2440
BREF 28.1004
XREF 32.3010
YREF 11.2500
ZREF 11.2500
SCALE .0300



VERTICAL TAIL YAWING MOMENT COEFFICIENT, CYNV

RUDDER DEFLECTION ANGLE, RUDDER, DEGREES

FIG. 37 EFFECT OF RUDDER DEFLECTION ON VERTICAL TAIL, SPEEDBRAKE = 25 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOG LAP	SPOBRK	REFERENCE INFORMATION
[AEK025]	ARC 97-747 CAS38 B C M F V	.000	.000	-11.700	25.000	SREF 2.4219
[AEC036]	ARC 97-747 CAS38 B C M F V	10.000	.000	-11.700	25.000	LREF 14.2440
[AEC077]	ARC 97-747 CAS38 B C M F V	20.000	.000	-11.700	25.000	BREF 28.1004
						XMRP 32.3010
						YMRP .0000
						ZMRP 11.2500
						SCALE .0300

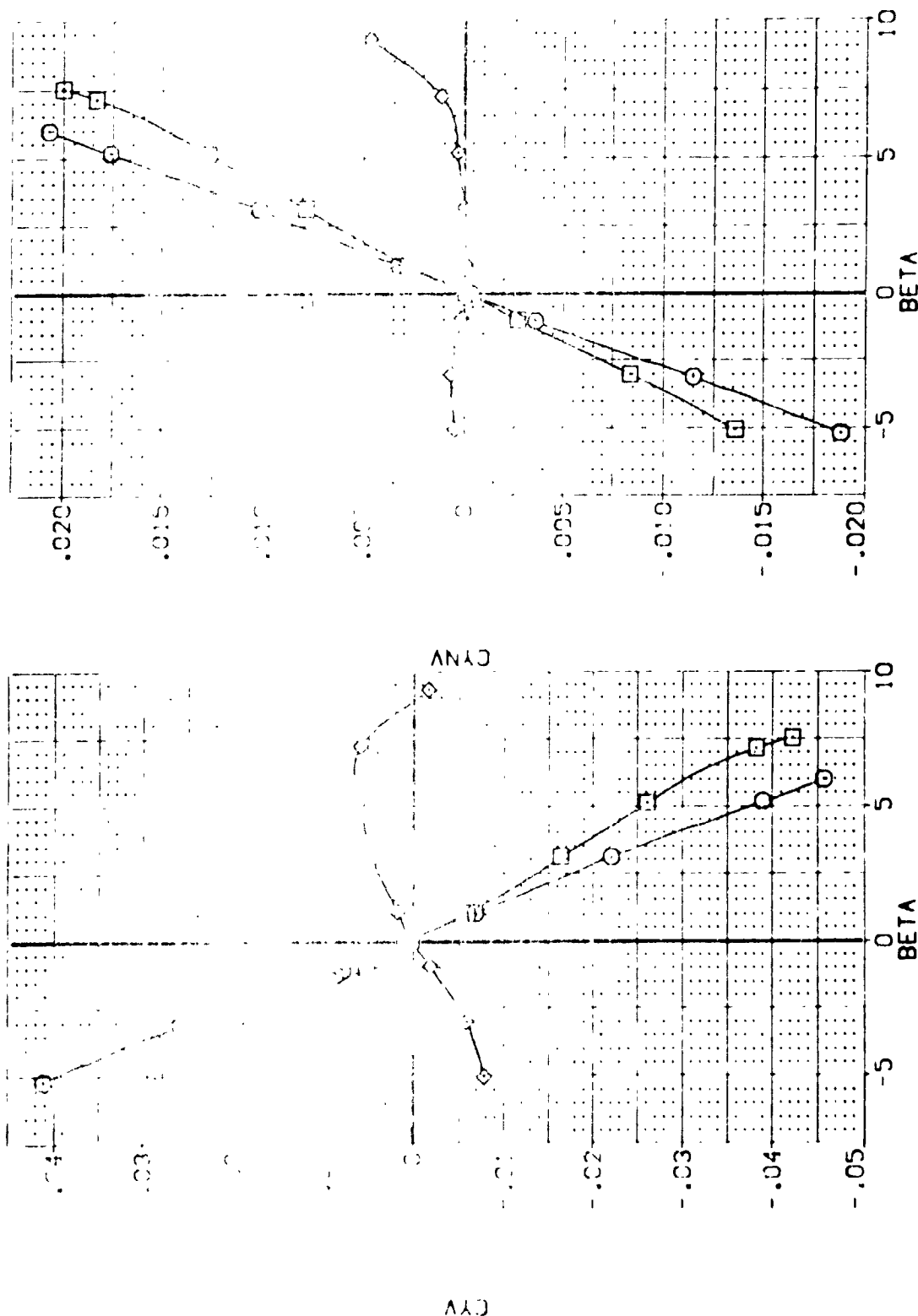


FIG. 38 VERTICAL TAIL LOADS VERSUS SIDESLIP, SPEEDBRAKE = 25 DEGREES

(A) VACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
[AEK075]	ARC 97-747 DAS3B B C M F V1	.000	.000	-11.700	25.000	SREF 2.4210
[AEK076]	ARC 97-747 DAS3B B C M F V1	10.000	.000	-11.700	25.000	LRREF 14.1440
[AEK077]	ARC 97-747 DAS3B B C M F V1	20.000	.000	-11.700	25.000	BRREF 28.1004
						YREF 32.3010
						ZREF 11.0000
						SCALE 10.000

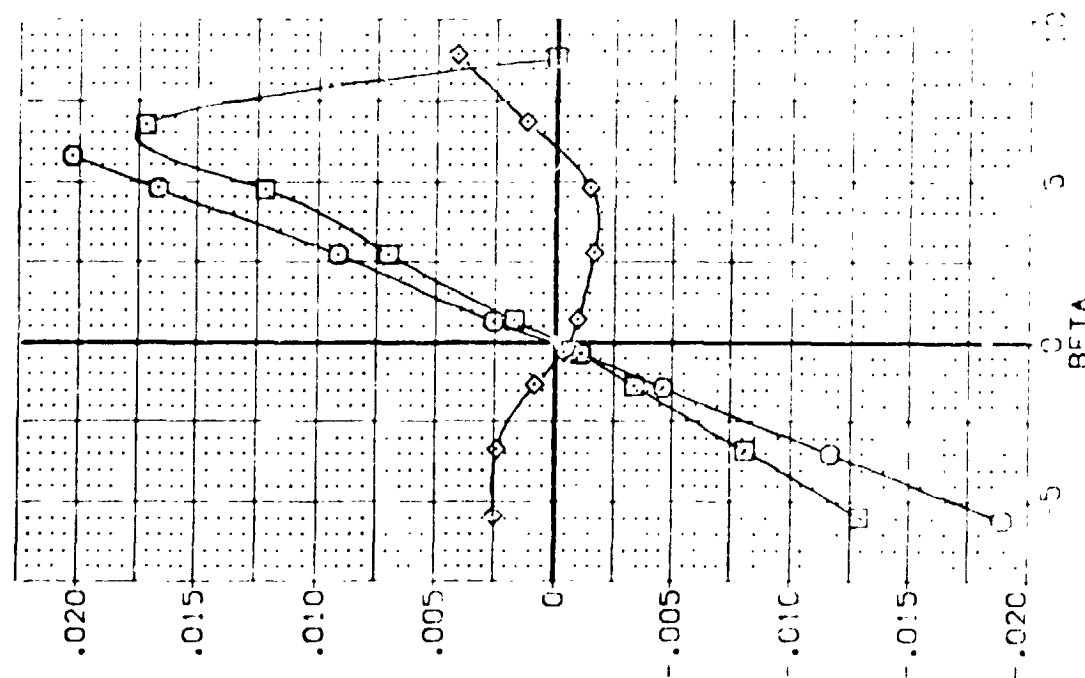
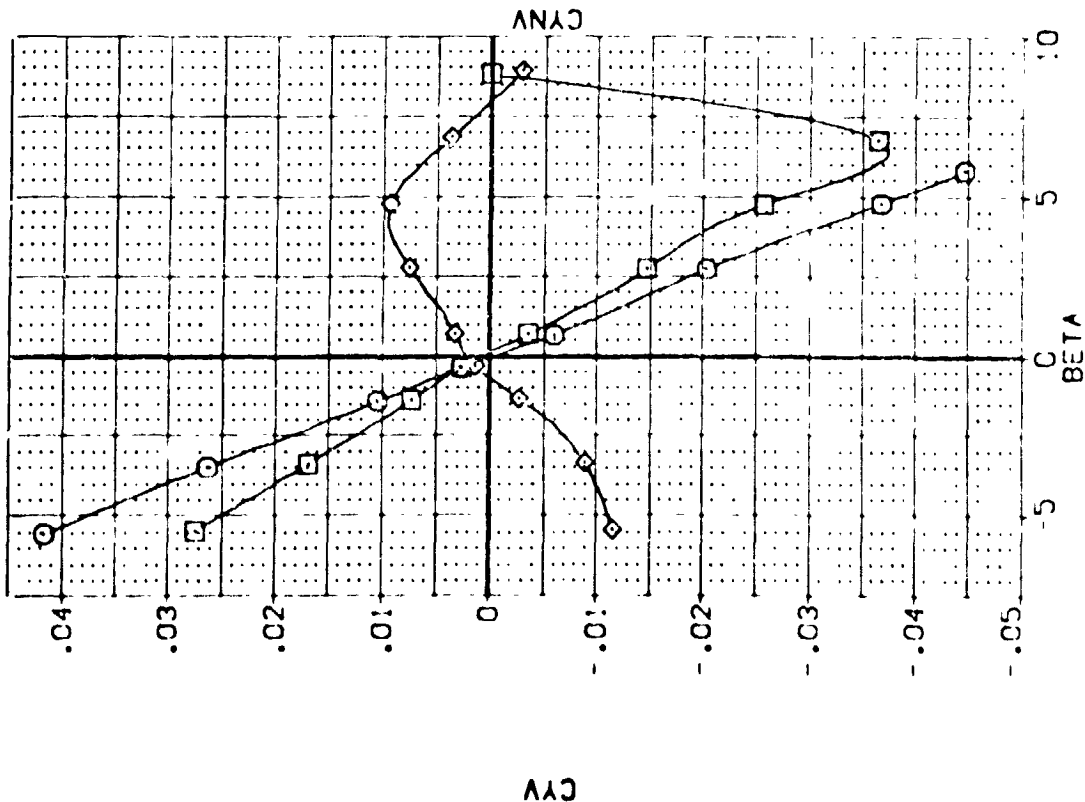


FIG. 38 VERTICAL TAIL LOADS VERSUS SIDESLIP, SPEEDBRAKE = 25 DEGREES

(B)MAC = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOG LAP	SPODBAK	REFERENCE INFORMATION
{AEKC35}	ARC 97-747 OAS38 B C M F VI V	0.000	-10.000	-11.700	25.000	SPREF 2.4210
{AEKC36}	ARC 97-747 OAS38 B C M F VI V	10.000	-10.000	-11.700	25.000	BPREF 14.2440
{AEKC37}	ARC 97-747 OAS38 B C M F VI V	20.000	-10.000	-11.700	25.000	BPREF 28.1004
						YMRP 32.3010
						ZMRP .0000
						SCALE 11.2500
						SCALE .0300

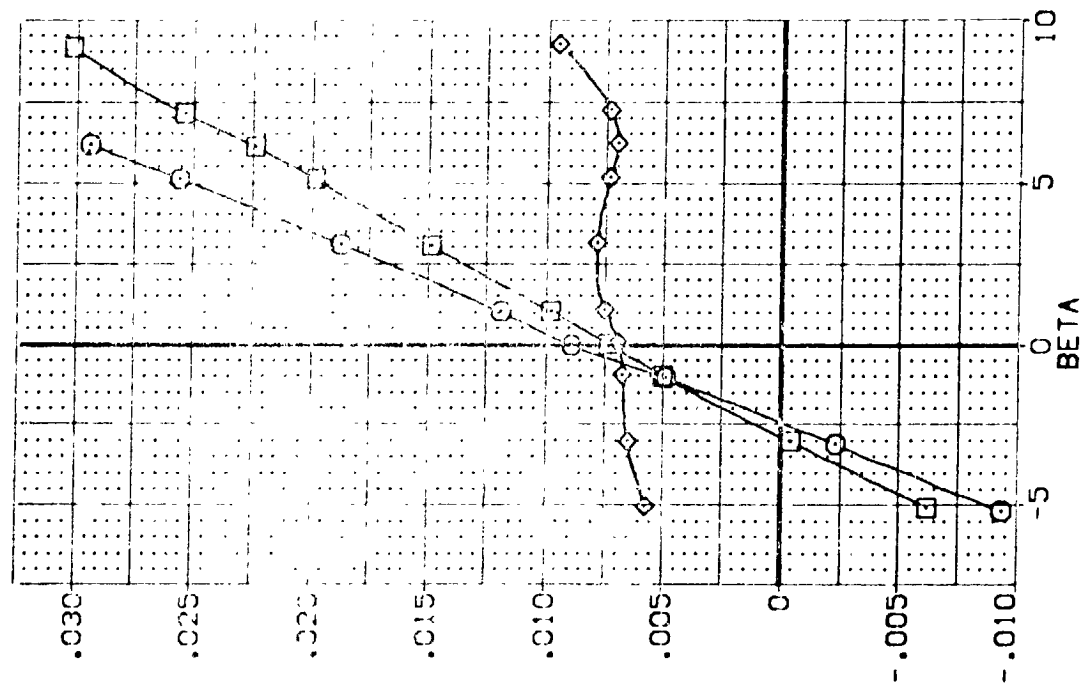
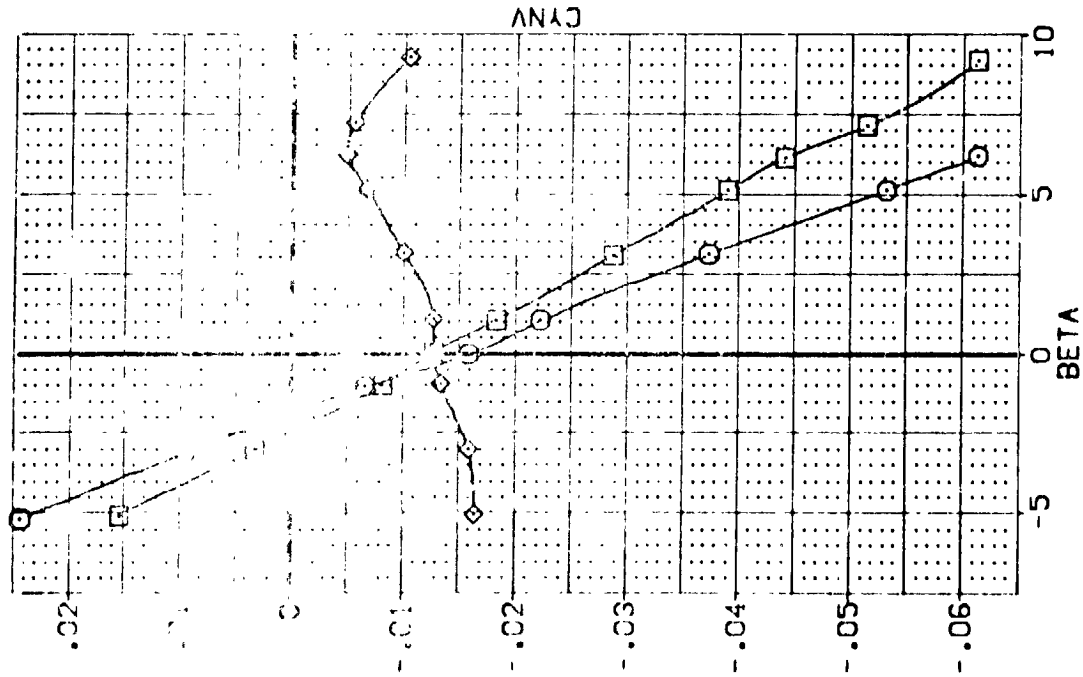


FIG. 38 VERTICAL TAIL LOADS VERSUS SIDESLIP, SPEEDBRAKE = 25 DEGREES

(MACH = 1.60)

DATA SET SYMBOL	CONF	IGRATION DESCRIPTION	ALPHA	RUDER	BOFLAP	SPDRBK	REFERENCE INFORMATION
{AE035}	ARC	97-747 D4538 B C M F V	.000	-10.000	-11.700	25.000	SREF 2.4210 SQ.FT.
{AE036}	ARC	97-747 D4538 B C M F V	10.000	-10.000	-11.700	25.000	LREF 14.2440
{AE037}	ARC	97-747 D4538 B C M F V	20.000	-10.000	-11.700	25.000	BREF 28.1004
							YMRP .0000
							ZMRP 11.2500
							SCALE .0300

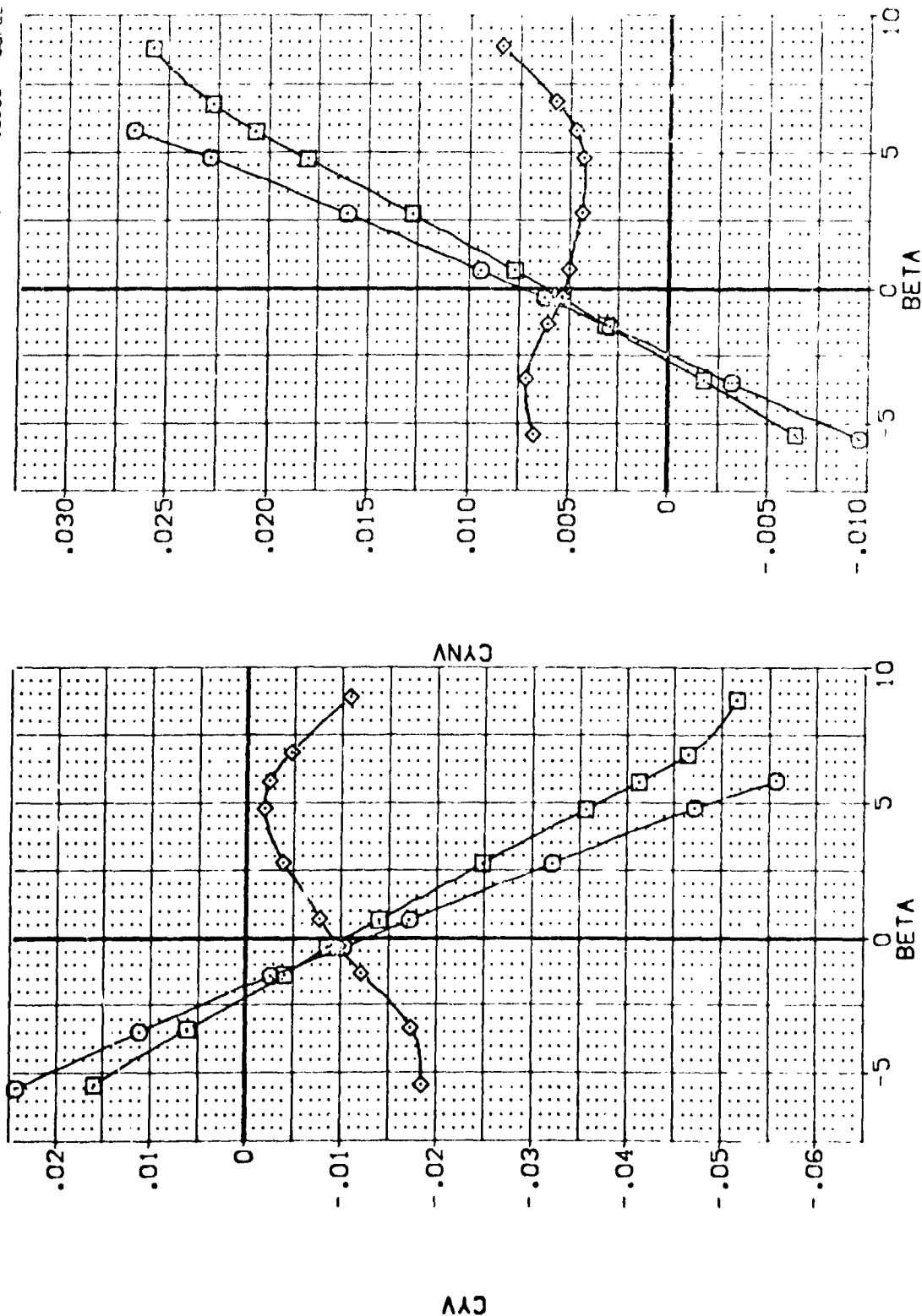


FIG. 38 VERTICAL TAIL LOADS VERSUS SIDESLIP, SPEEDBRAKE = 25 DEGREES

(B)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [AERO 1] 1 APC 97-747 2-538 B C F V Y NCM RWL
 [AERO 2] 2 APC 97-747 2-538 B C F V Y NCM RWL
 [AERO 3] 3 APC 97-747 2-538 B C F V Y NCM RWL
 [AERO 4] 4 APC 97-747 2-538 B C F V Y NCM RWL

ALPHA RUDDER BOW UP SPEED
 .000 .000 .000 55.000
 .000 .000 .000 55.000
 .000 .000 .000 55.000
 .000 .000 .000 55.000

REFERENCE INFORMATION
 SPEED 2.4210 SCALE
 BOW 14.2440 SCALE
 RUDDER 28.0000 SCALE
 YAW 32.0000 SCALE
 ZAW 11.2910 SCALE
 SCALE .0000

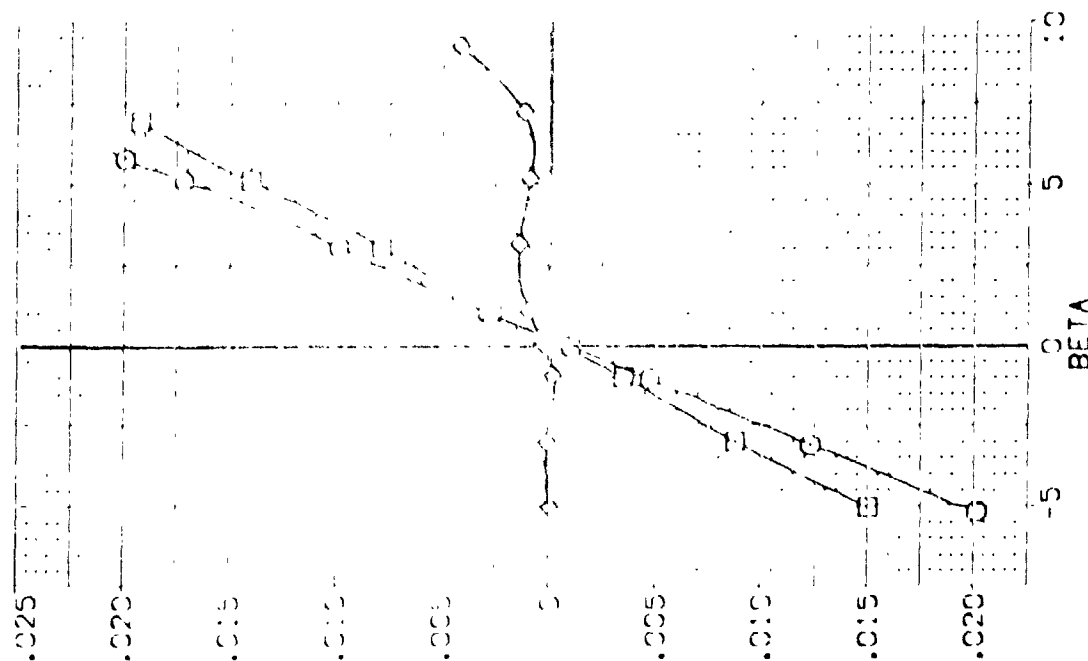
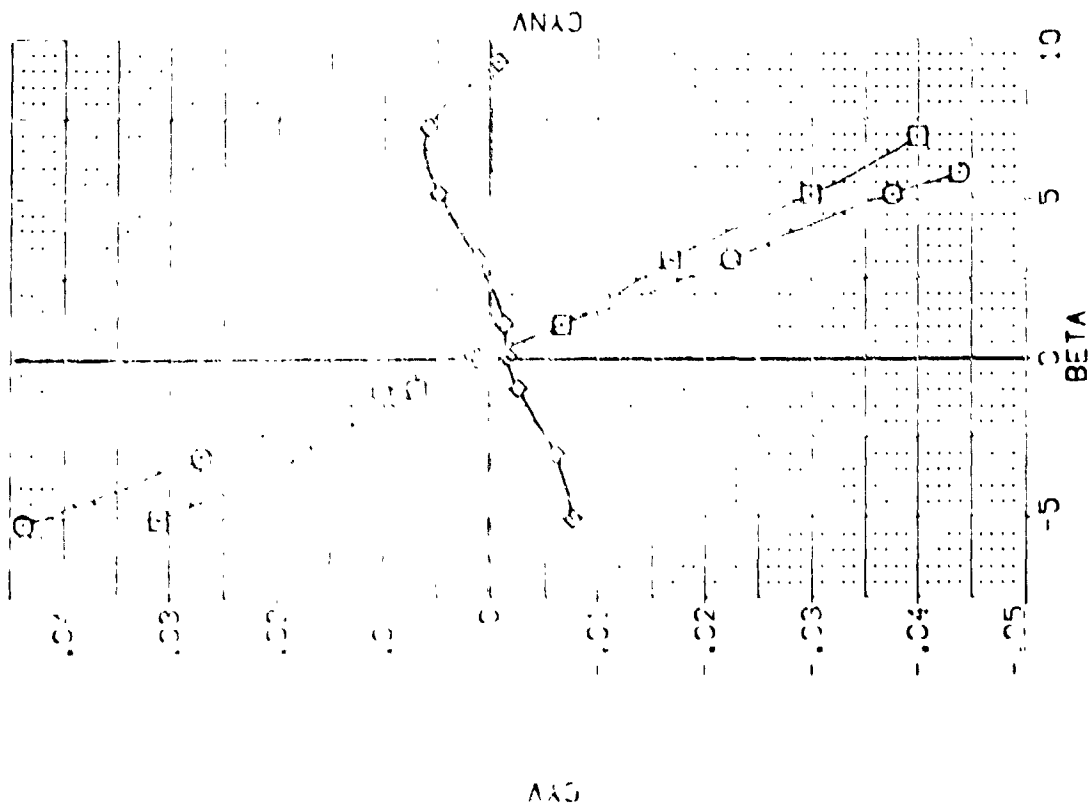


FIG. 39 VERTICAL TAIL LOADS VERSUS SIDESLIP. SPEEDBRAKE = 55 DEGREES

CAN/C = 1.60

1234
56789
101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100

DATA C. SYMBOL	CONFIGURATION	DESCRIPTION	
[AEQ:12]	ARC 97-747	CA538 B C M F VI	RV/L
[AEQ:13]	ARC 97-747	CA538 B C M F VI	RV/L
[AEQ:14]	ARC 97-747	CA538 B C M F VI	RV/L

ALPHA	RUBBER	BDS LAP	SPOBOK
.000	.000	-11.700	55.000
10.000	.000	-11.700	55.000
20.000	.000	-11.700	55.000

REFERENCE INFORMATION	
SPEED	2,4210 SQ. FT.
REF	14,2440
REF	28,2004
REF	32,3000
REF	11,2600
SCALE	1,0300 SCALE

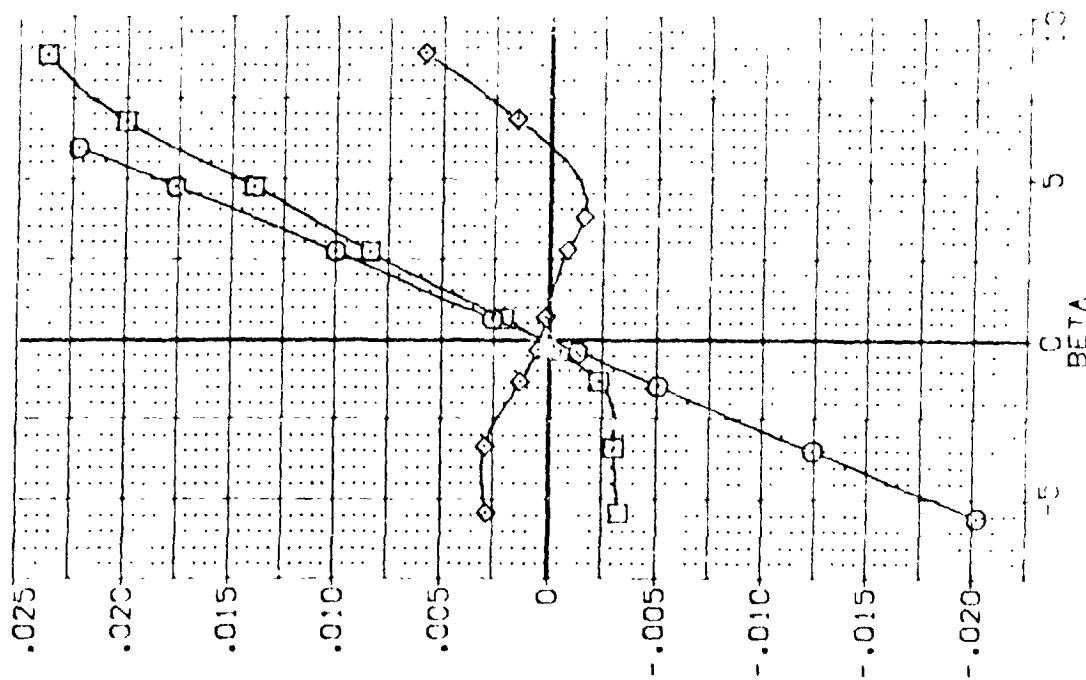
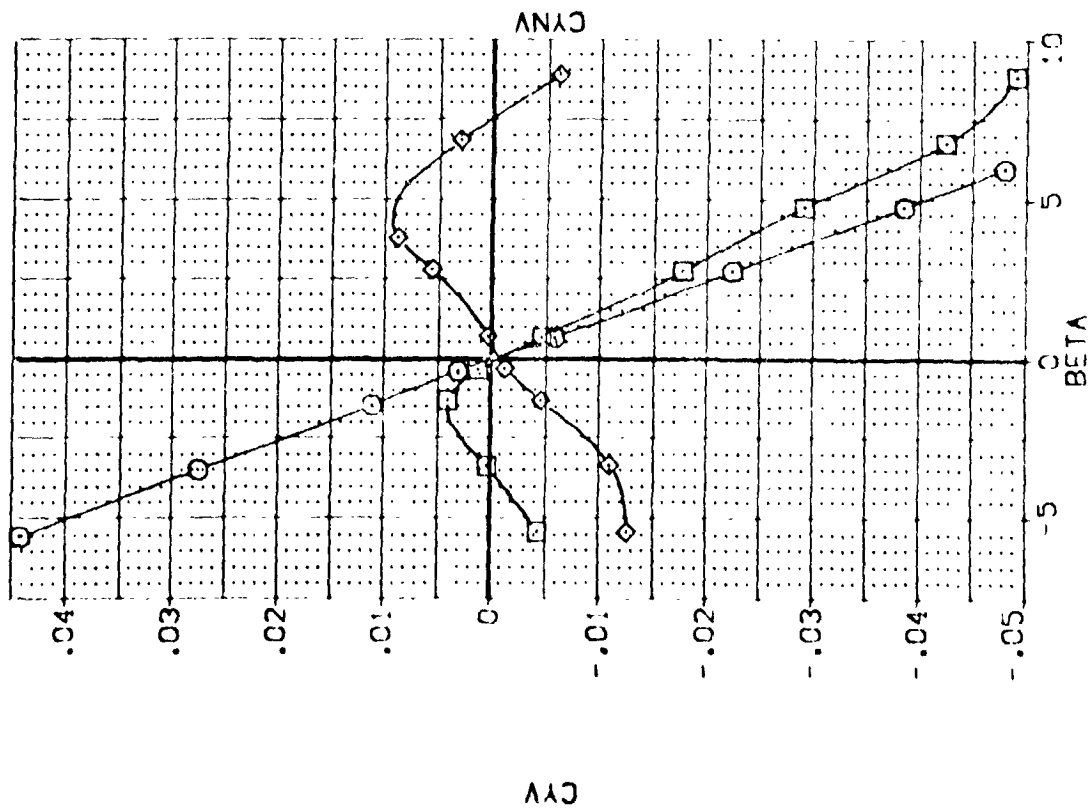


FIG. 39 VERTICAL TAIL LOADS VERSUS SIDESLIP, SPEEDBRAKE = 55 DEGREES

$$[B]_{\text{vac}} = 2.00$$

PAGE 450

455

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(AEK029) O ARC 97-747 QAS38 B C M F V V NOM, RN/L

(AEK030) O ARC 97-747 QAS38 B C M F V V NOM, RN/L

(AEK031) O ARC 97-747 QAS38 B C M F V V NOM, RN/L

ALPHA RUDDER BOFLAP SPEEDRY

.000 -10.000 -11.700 55.000

10.000 -10.000 -11.700 55.000

20.000 -10.000 -11.700 55.000

REFERENCE INFORMATION

SPEED 2.4210 SQ.FT.

LREF 14.244C

BPREF 28.1004

XMAR 32.3010

YMAR .0000

ZMRP 11.7500

SCALE .0300

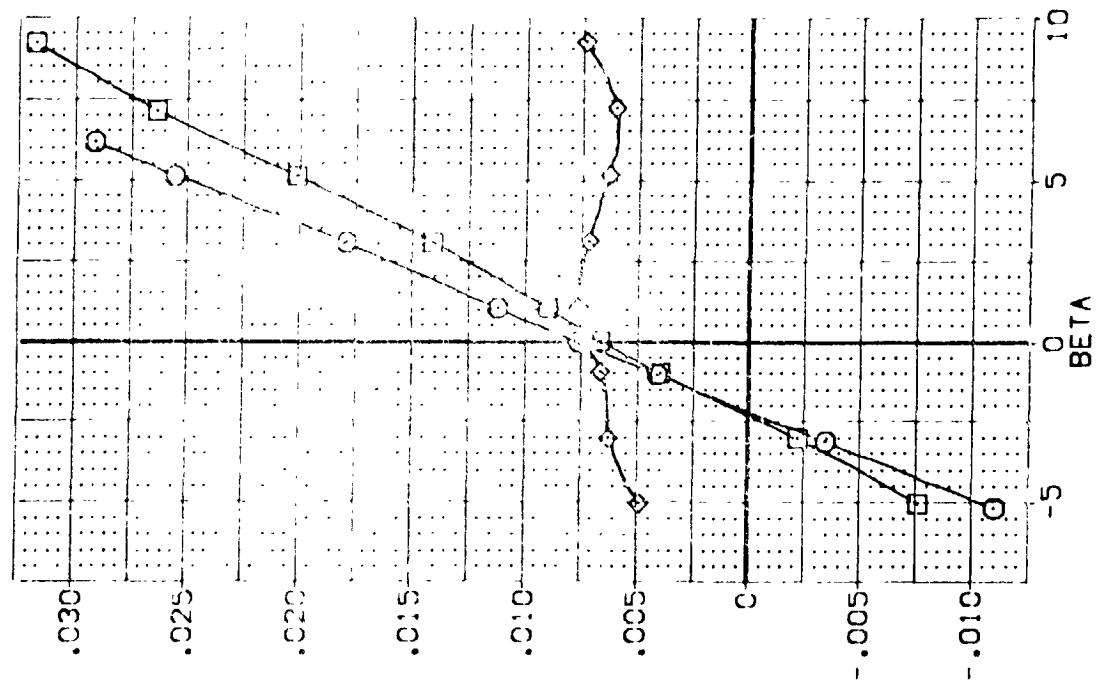
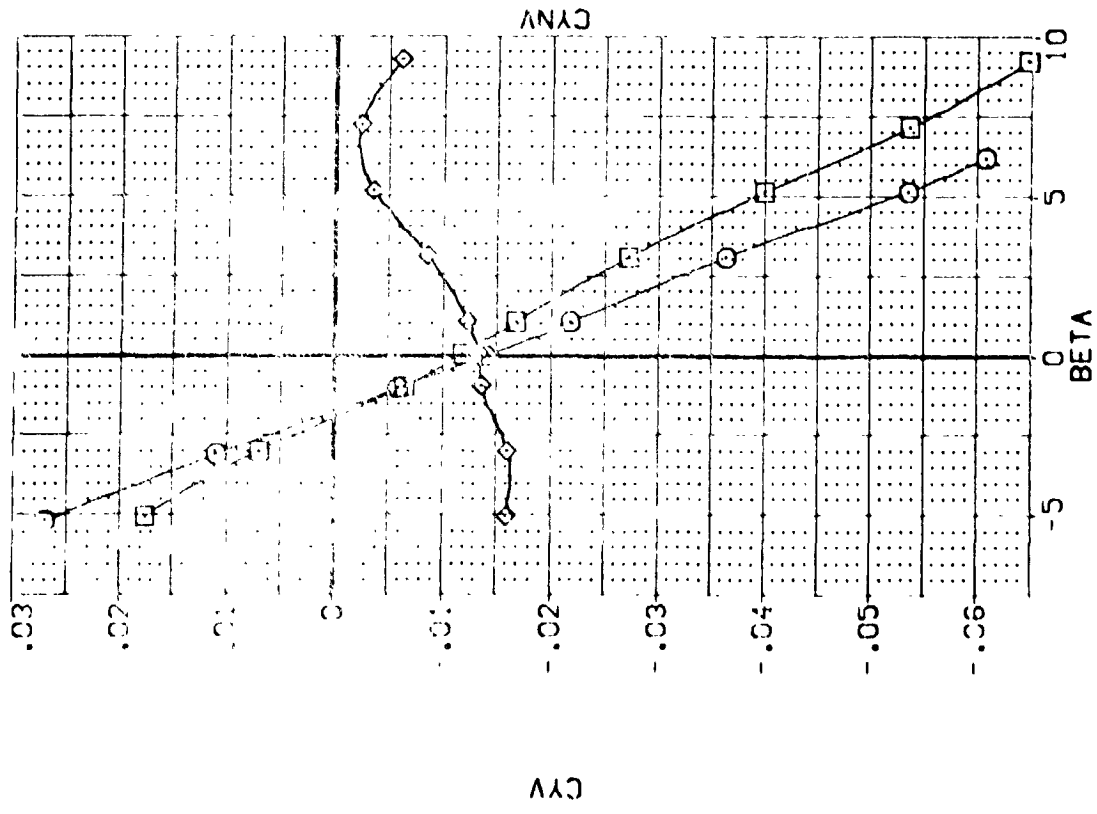


FIG. 39 VERTICAL TAIL LOADS VERSUS SIDESLIP, SPEEDBRAKE = 55 DEGREES

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOG LAP	SPOBRK	REFERENCE INFORMATION
[AER029]	ARC 97-747 D4538 B C M F V	0.000	-10.000	-11.700	55.000	SREF 2.4210
[AER030]	ARC 97-747 D4538 B C M F V	10.000	-10.000	-11.700	55.000	UREF 14.2440
[AER031]	ARC 97-747 D4538 B C M F V	20.000	-10.000	-11.700	55.000	BREF 28.1004
						YREF 32.3010
						ZREF 11.2500
						SCALE .0500

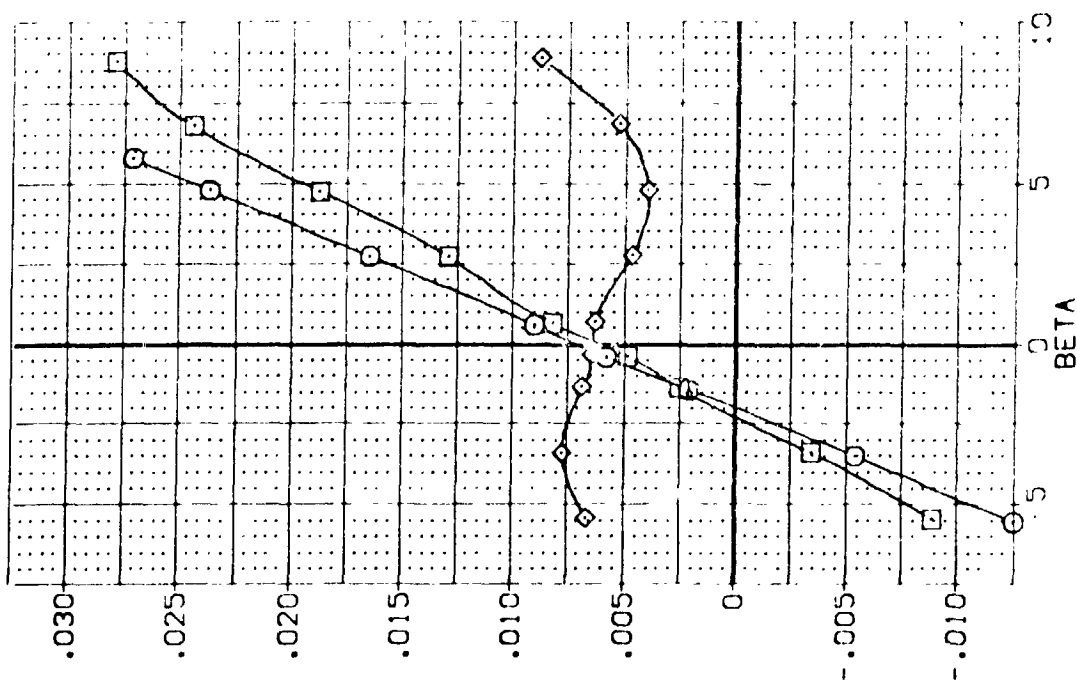
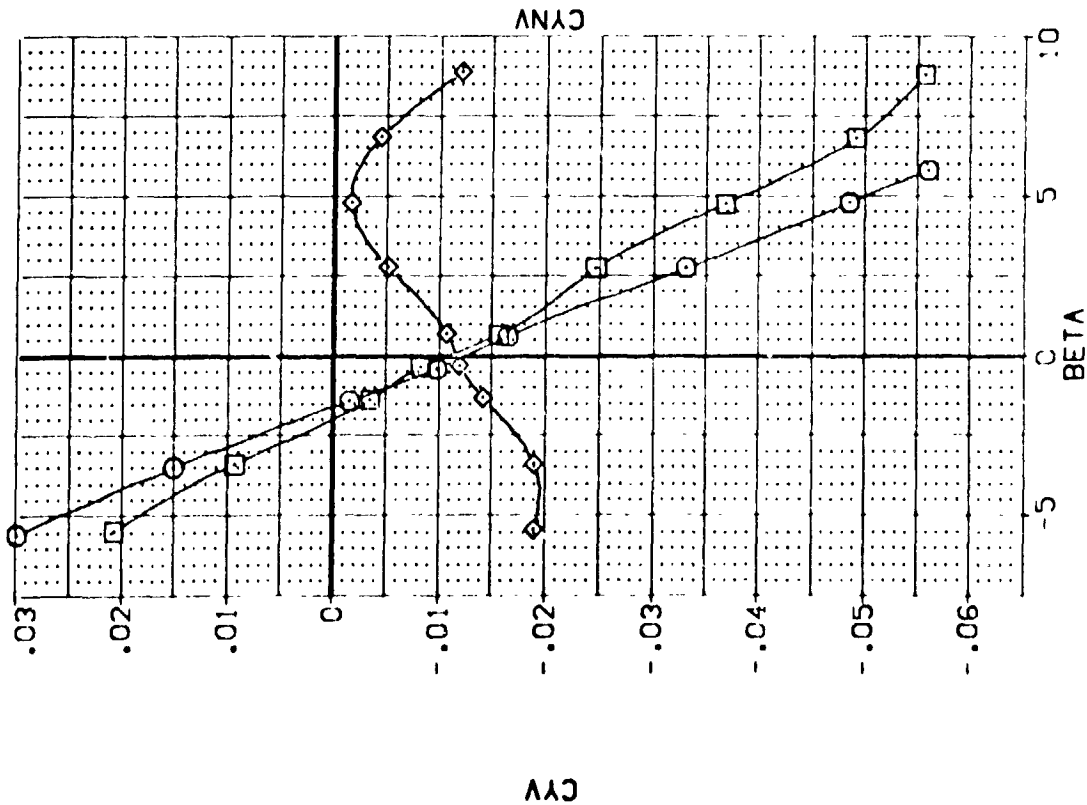


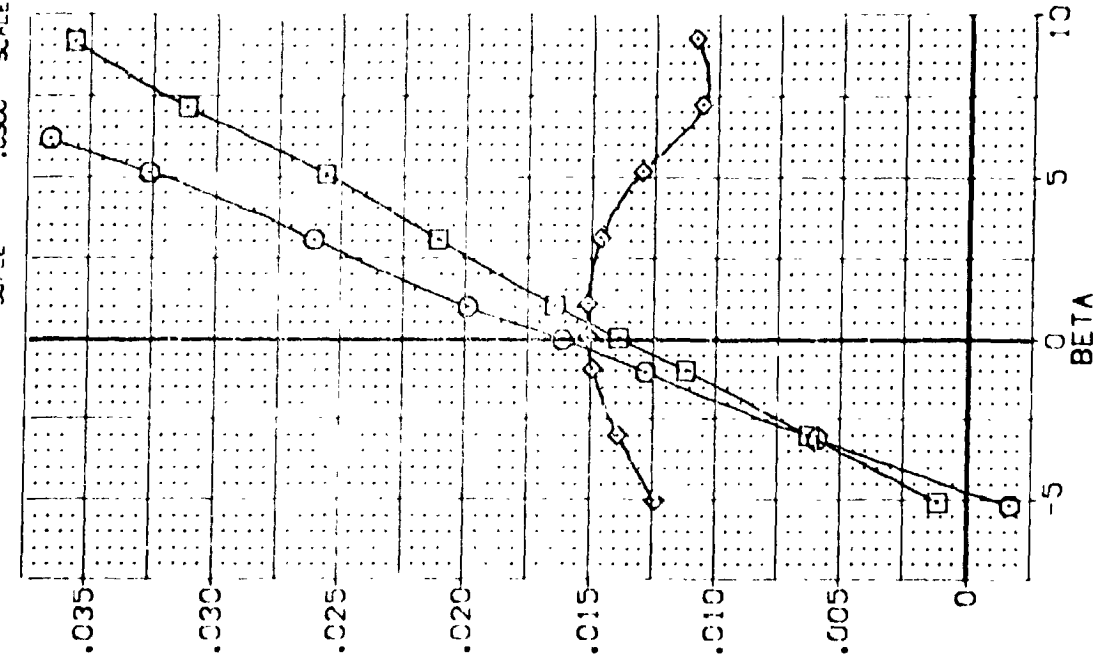
FIG. 39 VERTICAL TAIL LOADS VERSUS SIDESLIP, SPEEDBRAKE = 55 DEGREES
(B)YAC = 2.00

三三三
三三三

BOFLAP	SPORAX
-11.700	55.000
-11.700	55.000
-11.700	55.000

ICE INFORMATION

2.4210	50. FT.
14.2440	IN.
28.1004	IN.
32.3003	IN.
0000	IN.
11.2500	IN.
0300	SCALE


$$\{A\} \sim ACH = 1.60$$

DATA SET SYMBOL CONFIGURATION DESCRIPTION

ARC 97-747	BASEB B C M F VI	V	NOT: RN/L
ARC 97-747	BASEB B C M F VI	V	NOT: RN/L
ARC 97-747	BASEB B C M F VI	V	NOT: RN/L

ALPHA RUDDER BDF LAP SPEED

0.000	-25.000	-11.700	55.000
10.000	-25.000	-11.700	55.000
20.000	-25.000	-11.700	55.000

REFERENCE INFORMATION

SREF	2.4210	SC.FT.
LREF	14.2440	
BREF	28.1004	
YREF	37.3010	
ZREF	11.2500	
SCALE	1.0000	

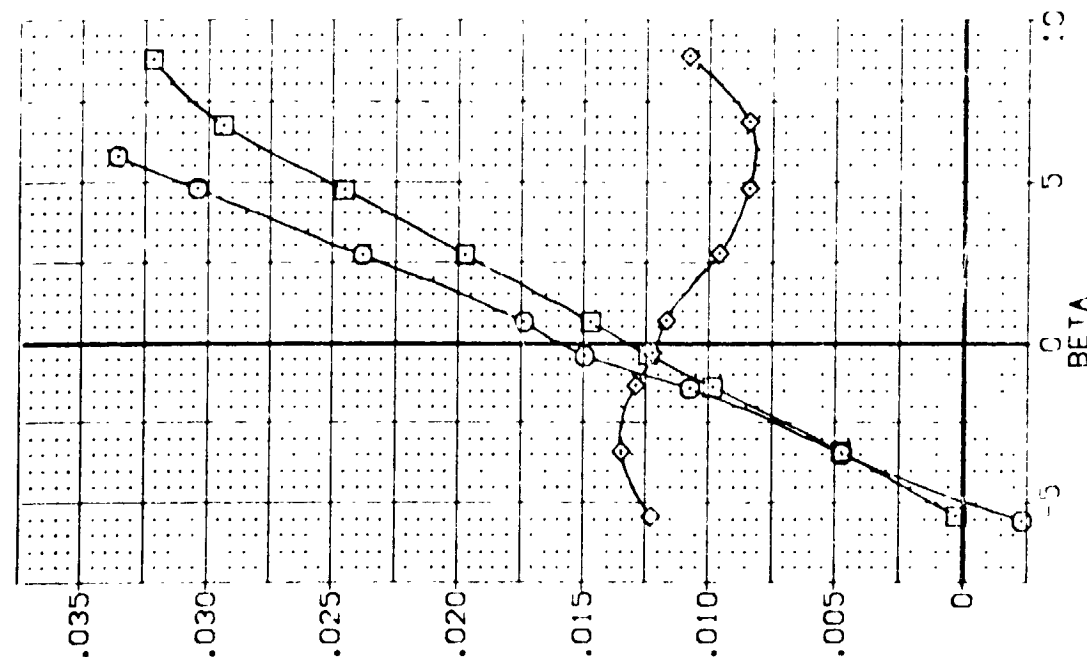
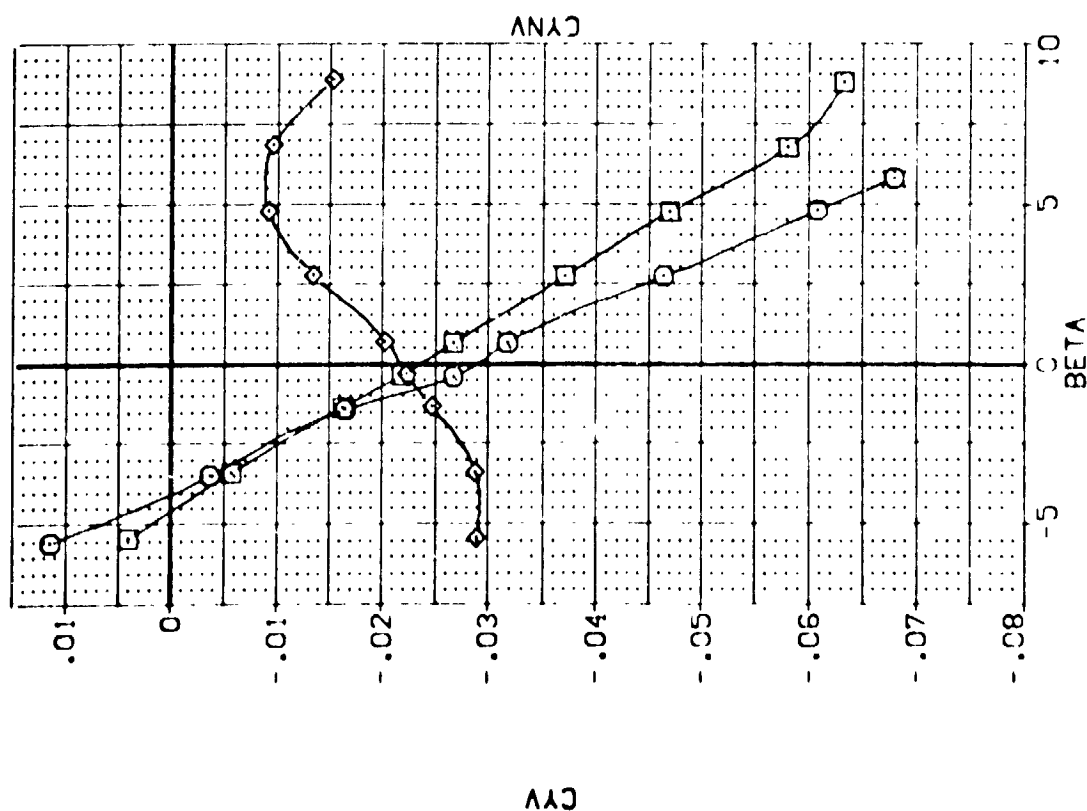


FIG. 39 VERTICAL TAIL LOADS VERSUS SIDESLIP, SPEEDBRAKE = 55 DEGREES

(B)MAC = 2.00

synd

ALPWA

ALPHA	MACH
.000	ELEVON
10.000	BOFLAP
20.000	ELEV-L

PARAMETRIC VALUES
BETA
1.600
ALFON
.000
SPORBK
-11.700
ELEV-R
.000

• • • •

REFERENCE INFORMATION

2.4210 SQ.FT.

14.244C

28.1004

32.30:0

88

11.7500

SUMMARY

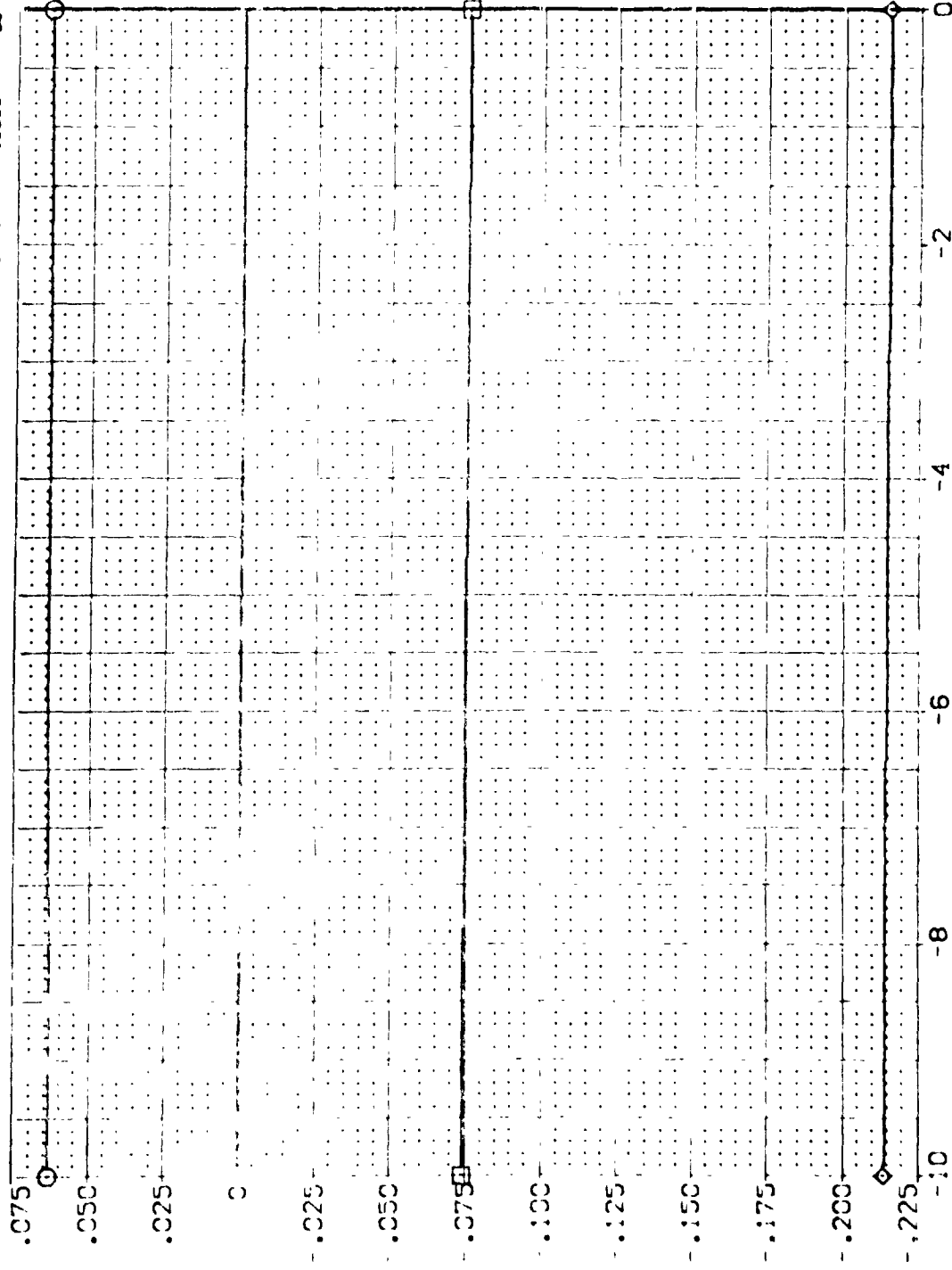


FIG. 40 EFFECT OF RUDDER DEFLECTION ON ELEVON HINGEMOMENT, SPEEDBRAKE = 25 DEG

SYMBOL
□ □ ◇

PARAMETRIC VALUES
MACH 2.000 BETA .000
ELEVON .000 AILRON .000
BOFLAP -11.700 SPOBRK 25.000
ELEV-L .000 ELEV-R .000

REFERENCE INFORMATION
SRF 2.4210 SC.F.T.
LREF 14.2440
BREF 28.0004
XPRP 32.0010
YPRP .0000
ZPRP 11.2500
SCALE .0300

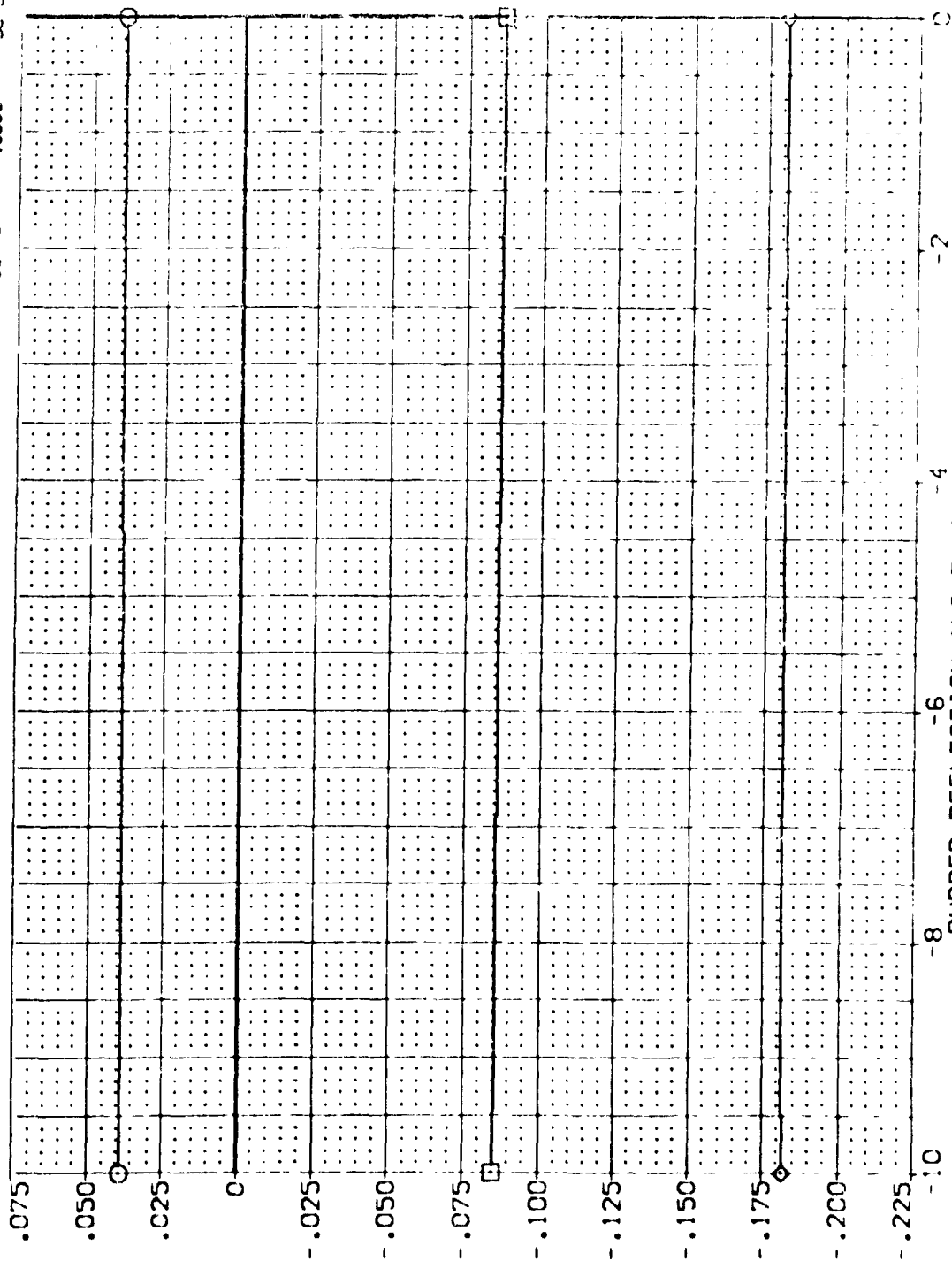


FIG. 40 EFFECT OF RUDDER DEFLECTION ON ELEVON HINGEMENT, SPEEDBRAKE = 25 DEG

ARC 97-747 0A53B B C M F W1 V NOM. RN/L (EEK035)

ALPHA

SYMBOL
 0
 1
 2

PARAMETRIC VALUES
 MAD-4 1.600 BETA .000
 ELEVON .000 AILRON .000
 BOFLAP -11.700 SPEEDBRAK 25.000
 ELEV-L .000 ELEV-R .000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LREF 14.2440
 BRREF 28.1000
 XAPP 32.3010
 YAPP 1.0000
 ZAPP 11.2500
 SCALE 1.300

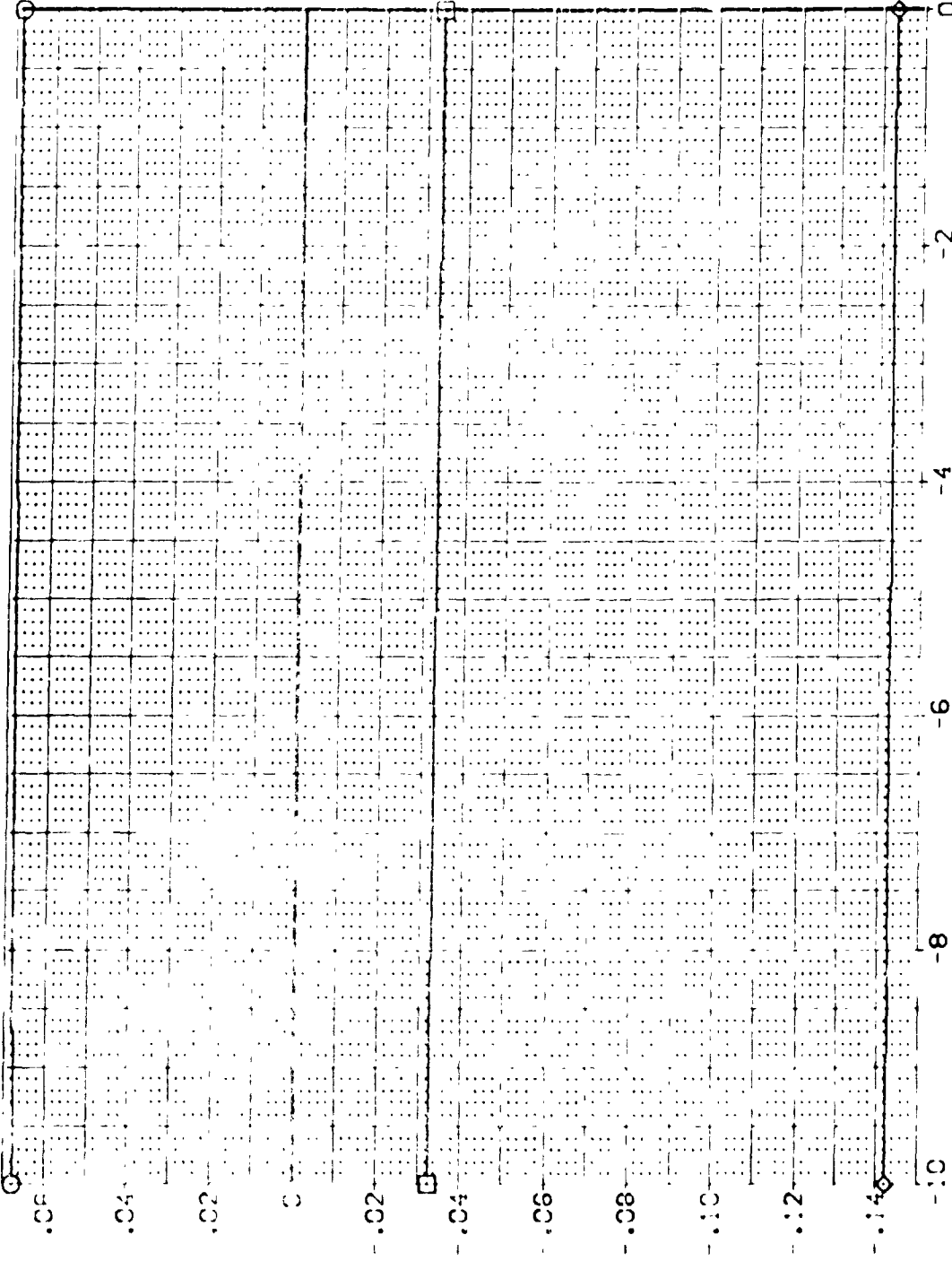


FIG. 40 EFFECT OF RUDDER DEFLECTION ON ELEVON HINGEMOMENT, SPEEDBRAKE = 25 DEG

SYMBOL	PARAMETRIC VALUES				REFERENCE INFORMATION			
	ALPHA	MACH	2.000	BETA	COEF	2.4210	SC.FT.	
□	.000	ELEVON	.000	AILRON	LREF	14.2440		
□	10.000	BOFLAP	-11.700	SPOBRK	BREF	28.1004		
◇	20.000	ELEV-L	.000	ELEV-R	YREF	32.3010		
					YREF	11.2500		
					SCALE	1.000		

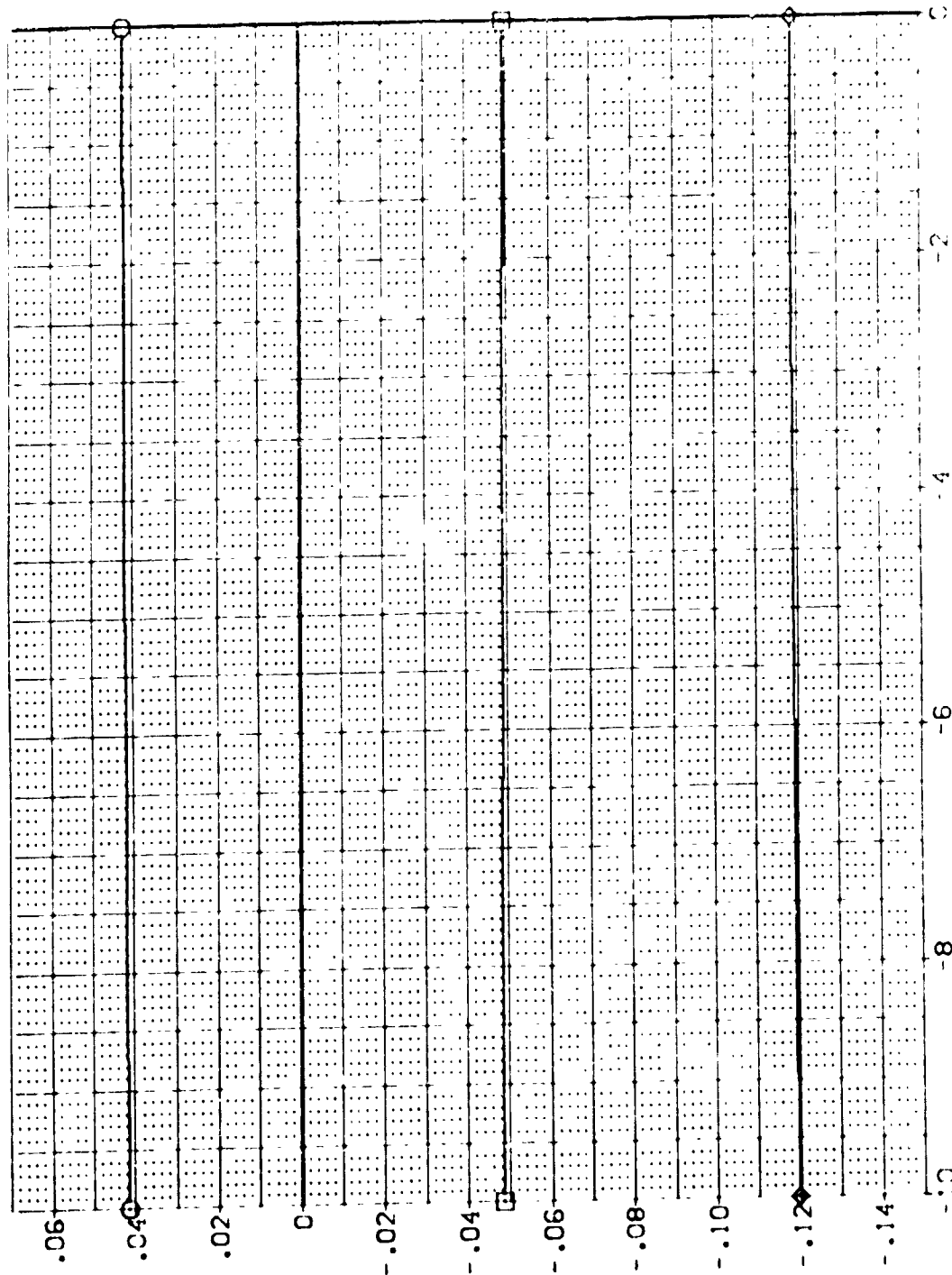


FIG. 40 EFFECT OF RUDDER DEFLECTION ON ELEVON HINGEMENT, SPEEDBRAKE = 25 DEG

(EEK035)

ARC 0' '4' 3A538 B C M F W1 V NOM. RN/L

SYMBOL

ALPHA

C

ELEVON

FLAP

ELEV-L

ELEV-R

SPDRK

BETA

AILRON

SPDRK

ELEV-R

SPDRK

ELEV-L

AILRON

SPDRK

PARAMETRIC VALUES
C 1.600 BETA .000
ELEVON .000 AILRON .000
FLAP -11.00 SPDRK 25.000
ELEV-L .000 ELEV-R .000
SPDRK .000

REFERENCE INFORMATION
SREF 2.4210 SQ.FT.
LREF 14.2440
BREF 28.1004
XREF 32.3010
YREF .0000
ZREF 11.2500
SCALE .0300

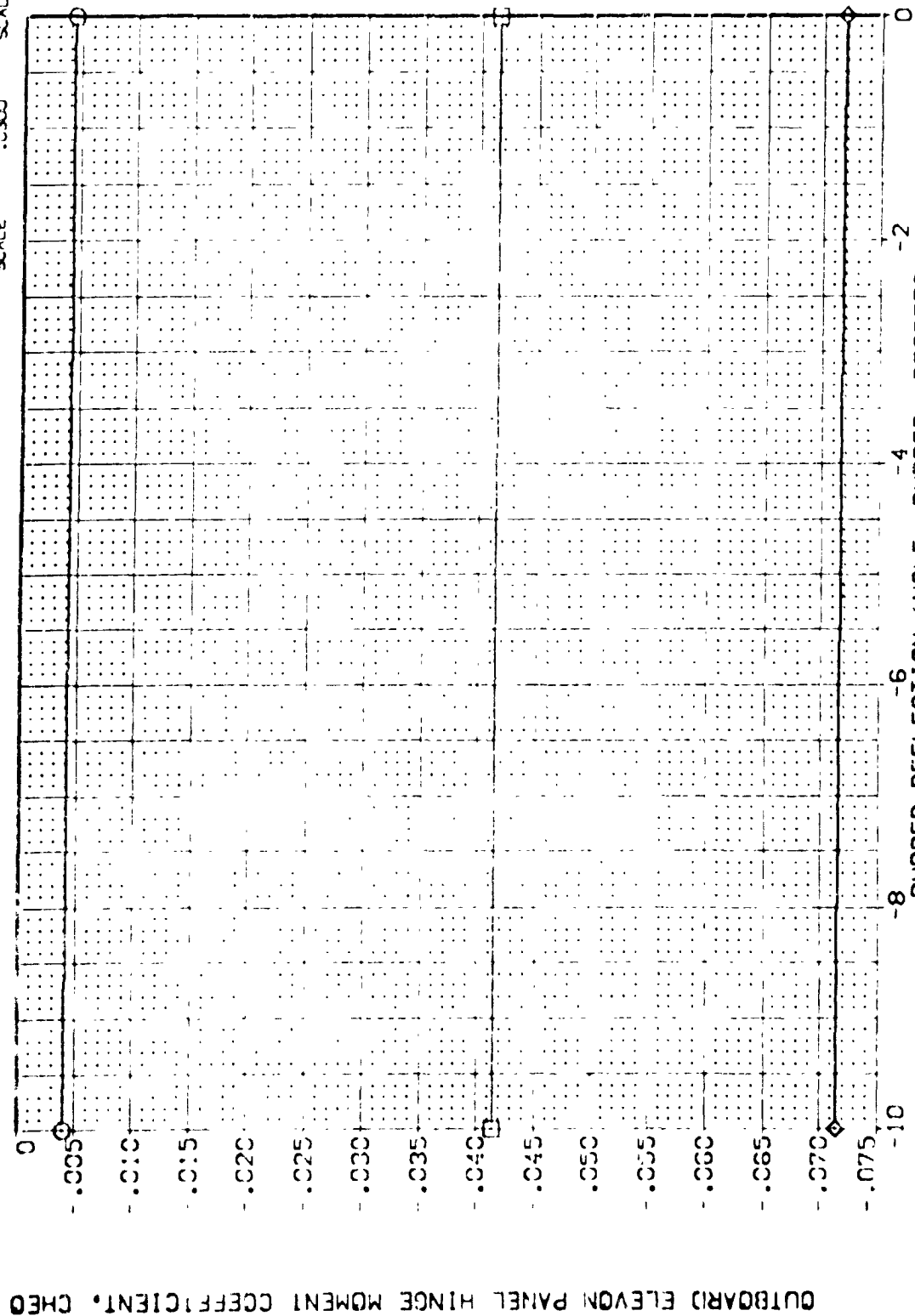


FIG. 40 EFFECT OF RUDDER DEFLECTION ON ELEVON HINGEMOMENT, SPEEDBRAKE = 25 DEG

SYMBOL
 ◇
 ○

ALPHA	MACH	PARAMETRIC VALUES	
.000	2.000	BETA	.000
.000	ELEVON	ALL-ON	.000
20.000	BOFLAP	SPEEDBRK	25.000
	ELEV-L	ELEV-R	.000

REFERENCE INFORMATION
 SREF 2.4210 50.00
 LREF 14.2440 10.00
 XREF 28.1004 10.00
 YREF 32.3010 10.00
 ZREF 11.2000 10.00
 SCALE 10.00

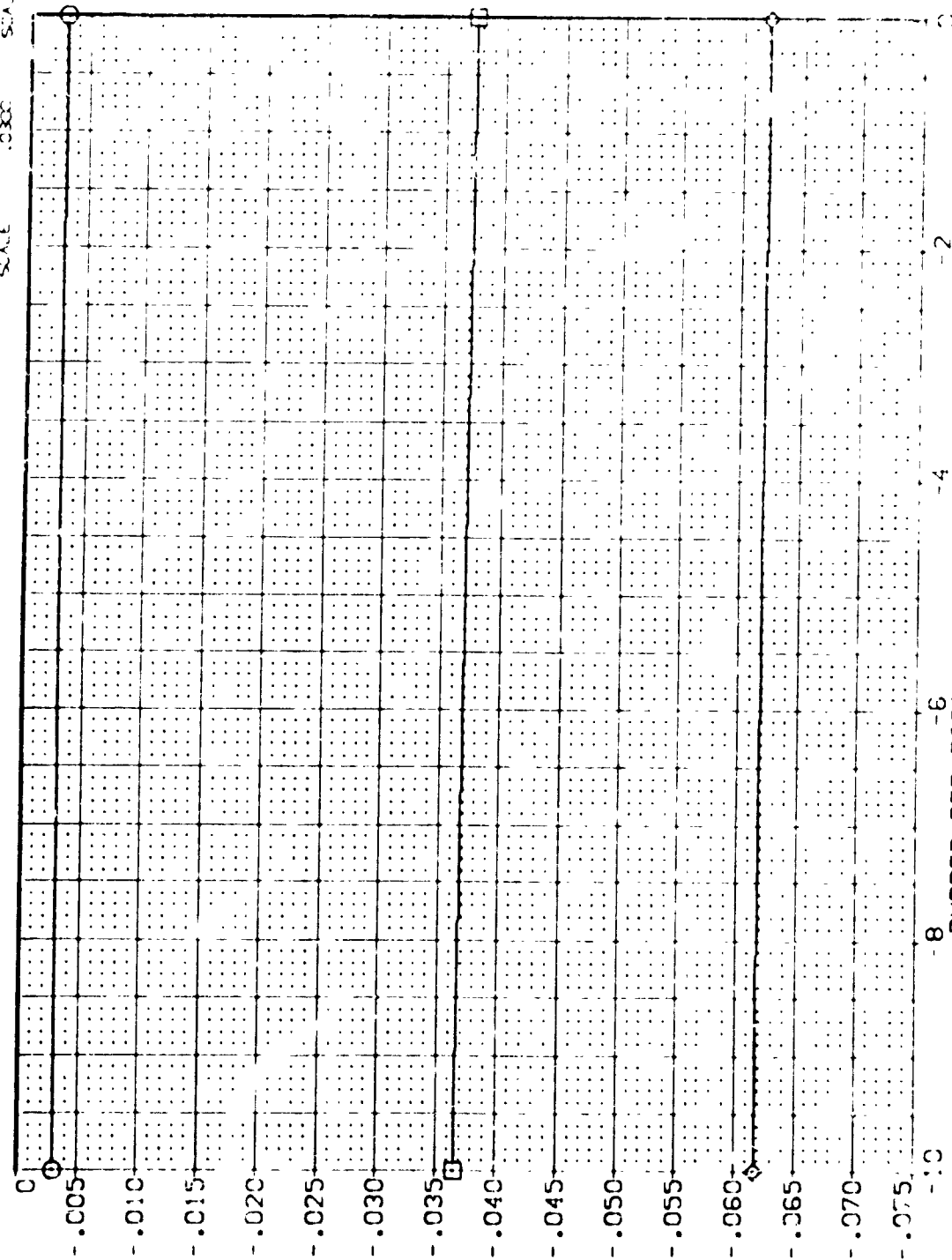


FIG. 40 EFFECT OF RUDDER DEFLECTION ON ELEVON HINGE MOMENT, SPEEDBRAKE = 25 DEG

(EEK035)

ARC 97 47 24533 B C M F W1 V NOM. RN/L

SYMBOL

PARAMETRIC VALUES

TACH .000
ELEV-R .000
ELEV-L .000
BODYFLAP .000
ELEV-R .000
ELEV-L .000
SPEEDBRK 25.000
AILRON .000
BETA .000

REFERENCE INFORMATION
SREF 2.4210 SQ.FT.
LREF 14.2440 IN.
BREF 28.1004 IN.
XMRP 32.3010 IN.
YMRP .0000 IN.
ZMRP 11.2500 IN.
SCALE .0300



FIG. 41 EFFECT OF RUDDER DEFLECTION ON BODYFLAP HINGEMOMENT, SPEEDBRAKE = 25 DEG

(EEK035)

ARC 97-747 0A53B B C M F W1 V NOM. RN/L

SYMBOL

○ □ ◇

PARAMETRIC VALUES

MACH .000
ELEVON .000
BODYFLAP -11.700
ELEV-L .000
BETA .000
AILRON .000
SPEEDBRAK 25.000
ELEV-R .000

REFERENCE INFORMATION

SREF 2.4210
LREF 14.2440
BREF 28.1004
VREF 32.3010
YREF .0000
ZREF 11.2500
SCALE .0300

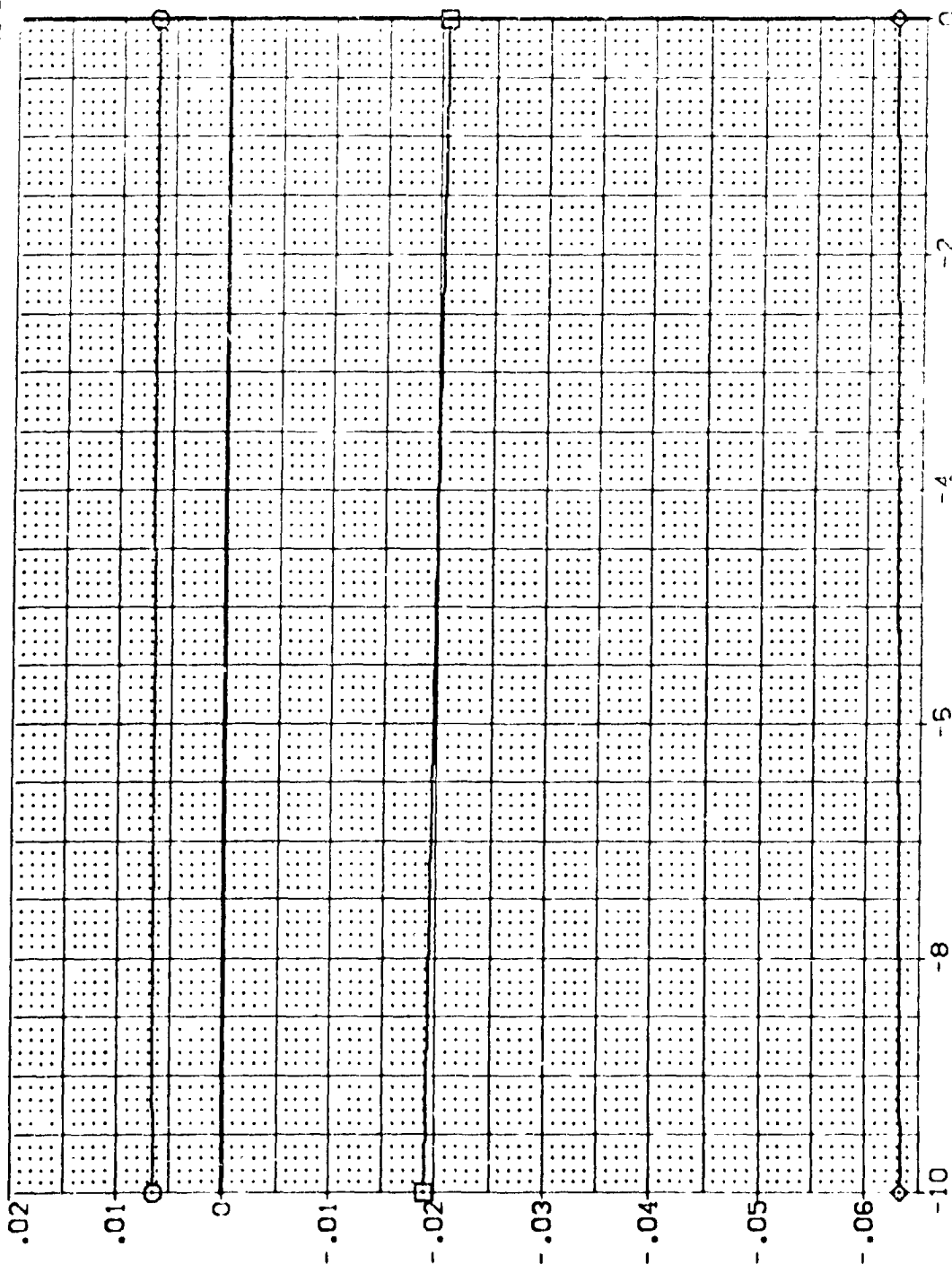


FIG. 41 EFFECT OF RUDDER DEFLECTION ON BODYFLAP HINGEMOMENT, SPEEDBRAKE = 25 DEG

ARC 97-747 CAS33 B C M F W: / NOM. RN/L (EEK002)

SYMBOL

ALPHA

MACH

PARAMETRIC VALUES

DATA SOURCE

ALTRON

DATASET

ALTRON

SPEED

REFERENCE INFORMATION

SCALE

0.00

10.000

20.000

BEY A

1000 DEF002

10.000

5.000

15.000

2.4210

14.2440

28.1000

0.00

10.000

20.000

BOF AP

1000 DEF002

10.000

5.000

15.000

2.4210

14.2440

28.1000

0.00

10.000

20.000

RUDDER

1000 DEF002

10.000

5.000

15.000

2.4210

14.2440

28.1000

0.00

10.000

20.000

ELEV R

1000 DEF002

10.000

5.000

15.000

2.4210

14.2440

28.1000

0.00

10.000

20.000

ELEV R

1000 DEF002

10.000

5.000

15.000

2.4210

14.2440

28.1000

0.00

10.000

20.000

ELEV R

1000 DEF002

10.000

5.000

15.000

2.4210

14.2440

28.1000

0.00

10.000

20.000

ELEV R

1000 DEF002

10.000

5.000

15.000

2.4210

14.2440

28.1000

0.00

10.000

20.000

ELEV R

1000 DEF002

10.000

5.000

15.000

2.4210

14.2440

28.1000

0.00

10.000

20.000

ELEV R

1000 DEF002

10.000

5.000

15.000

2.4210

14.2440

28.1000

0.00

10.000

20.000

ELEV R

1000 DEF002

10.000

5.000

15.000

2.4210

14.2440

28.1000

0.00

10.000

20.000

ELEV R

1000 DEF002

10.000

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15.000

2.4210

14.2440

28.1000

0.00

10.000

20.000

ELEV R

1000 DEF002

10.000

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2.4210

14.2440

28.1000

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10.000

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ELEV R

1000 DEF002

10.000

5.000

15.000

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28.1000

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ELEV R

1000 DEF002

10.000

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15.000

2.4210

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28.1000

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ELEV R

1000 DEF002

10.000

5.000

15.000

2.4210

14.2440

28.1000

0.00

10.000

20.000

ELEV R

1000 DEF002

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5.000

15.000

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ELEV R

1000 DEF002

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ELEV R

1000 DEF002

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ELEV R

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ELEV R

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ELEV R

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ELEV R

1000 DEF002

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ELEV R

1000 DEF002

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ELEV R

1000 DEF002

10.000

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2.4210

14.2440

28.1000

0.00

10.000

20.000

ELEV R

1000 DEF002

10.000

5.000

15.000

2.4210

14.2440

28.1000

0.00

10.000

20.000

ELEV R

1000 DEF00

SYMBOL
 ○
 □
 ◇

ALPHA
 .000
 10.000
 20.000

MACH
 2.000
 ELEVON
 -10.000
 SPOBRK
 -10.000
 ELEV-L
 -10.000

PARAMETRIC VALUES
 BETA
 .000
 BOFLAP
 -11.700
 RUDDER
 .000
 ELEV-R
 -10.000

DATA SOURCE
 AILRON
 10.000

DATASET
 EEK002
 EEK005
 EEK044

AILRON
 5.000
 15.000

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 3209.6000
 3213.9000
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 3231.1000
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 3244.0000
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 3278.4000
 3282.7000
 3287.0000
 3291.3000
 3295.6000
 3300.0000
 3304.3000
 3308.6000
 3312.9000
 3317.2000
 3321.5000
 3325.8000
 3330.1000
 3334.4000
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 3373.1000
 3377.4000
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 3390.3000
 3394.6000
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 3403.2000
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 3420.4000
 3424.7000
 3429.0000
 3433.3000
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 3441.9000
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 3450.5000
 3454.8000
 3459.1000
 3463.4000
 3467.7000
 3472.0000
 3476.3000
 3480.6000
 3484.9000
 3489.2000
 3493.5000
 3497.8000
 3502.1000
 3506.4000
 3510.7000
 3515.0000
 3519.3000
 3523.6000
 3527.9000
 3532.2000
 3536.5000
 3540.8000
 3545.1000
 3549.4000
 3553.7000
 3558.0000
 3562.3000
 3566.6000
 3570.9000
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 3579.5000
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 3605.3000
 3609.6000
 3613.9000
 3618.2000
 3622.5000
 3626.8000
 3631.1000
 3635.4000
 3639.7000
 3644.0000
 3648.3000
 3652.6000
 3656.9000
 3661.2000
 3665.5000
 3669.8000
 3674.1000
 3678.4000
 3682.7000
 3687.0000
 3691.3000
 3695.6000
 3700.0000
 3704.3000
 3708.6000
 3712.9000
 3717.2000
 3721.5000
 3725.8000

PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
ALPHA	WACH	DATA SET	AILRON	SREF	SC.FT.
.000	1.600	.000	EEK002	REF	14.2440
10.000	-10.000	-11.700	EEK002	BREF	28.1004
20.000	55.000	.000	EEK001	YREF	32.3010
	ELEV-L	-10.000	ELEV-R	ZREF	.0000
				SCALE	11.2500
					.0300

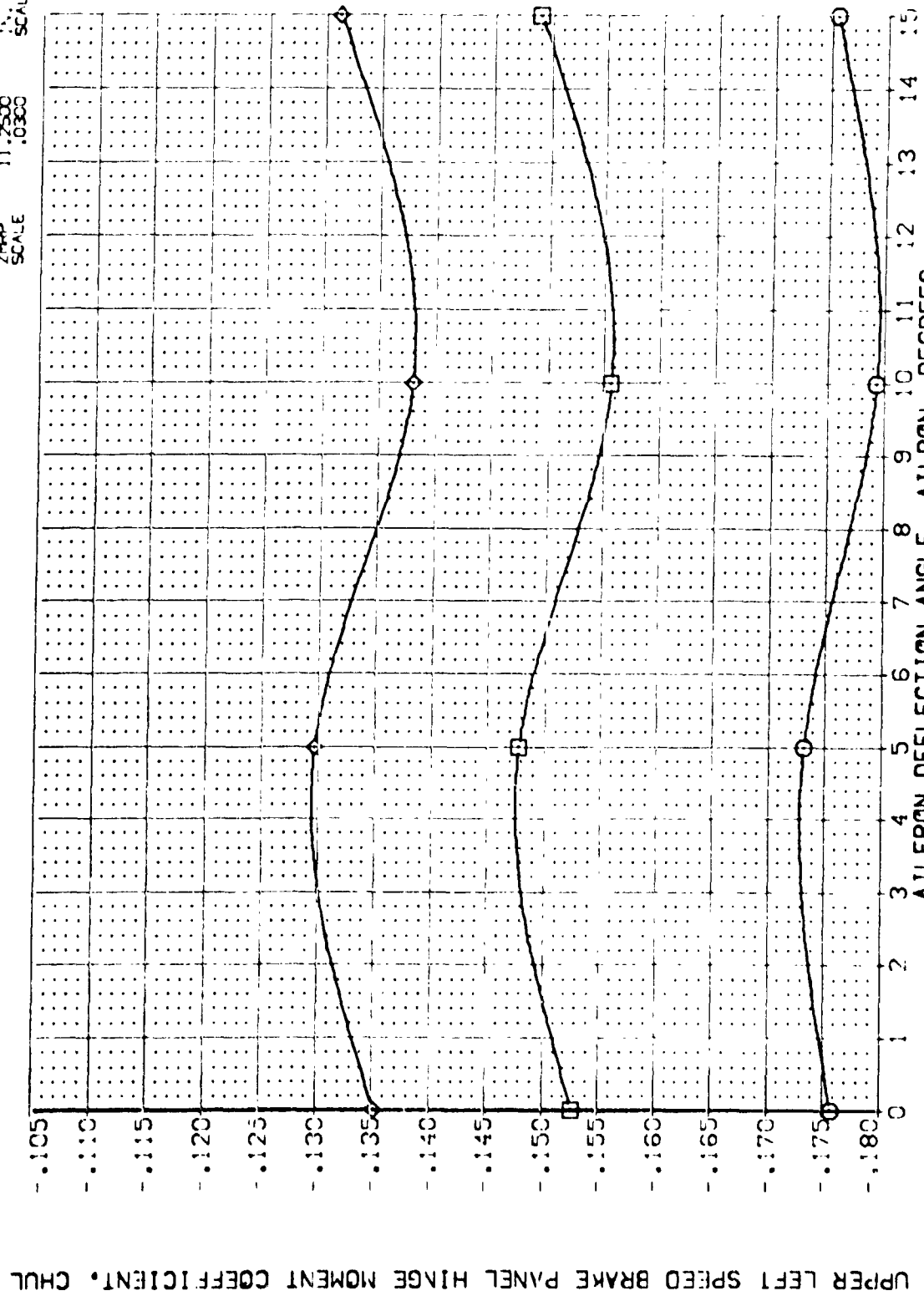


FIG. 42 EFFECT OF AILERON DEFLECTION ON RUDDER HINGEMENT

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	.000	2.000	BETA	AEK005	2.4210
□	10.000	-10.000	BOFLAP	EEK002	14.2440
◇	20.000	55.000	RUDDER	EEK044	28.1004
		-10.000	ELEV-R		37.3010
			ELEV-L		.0000
					11.7500
					.0300
					SCALE

UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUL

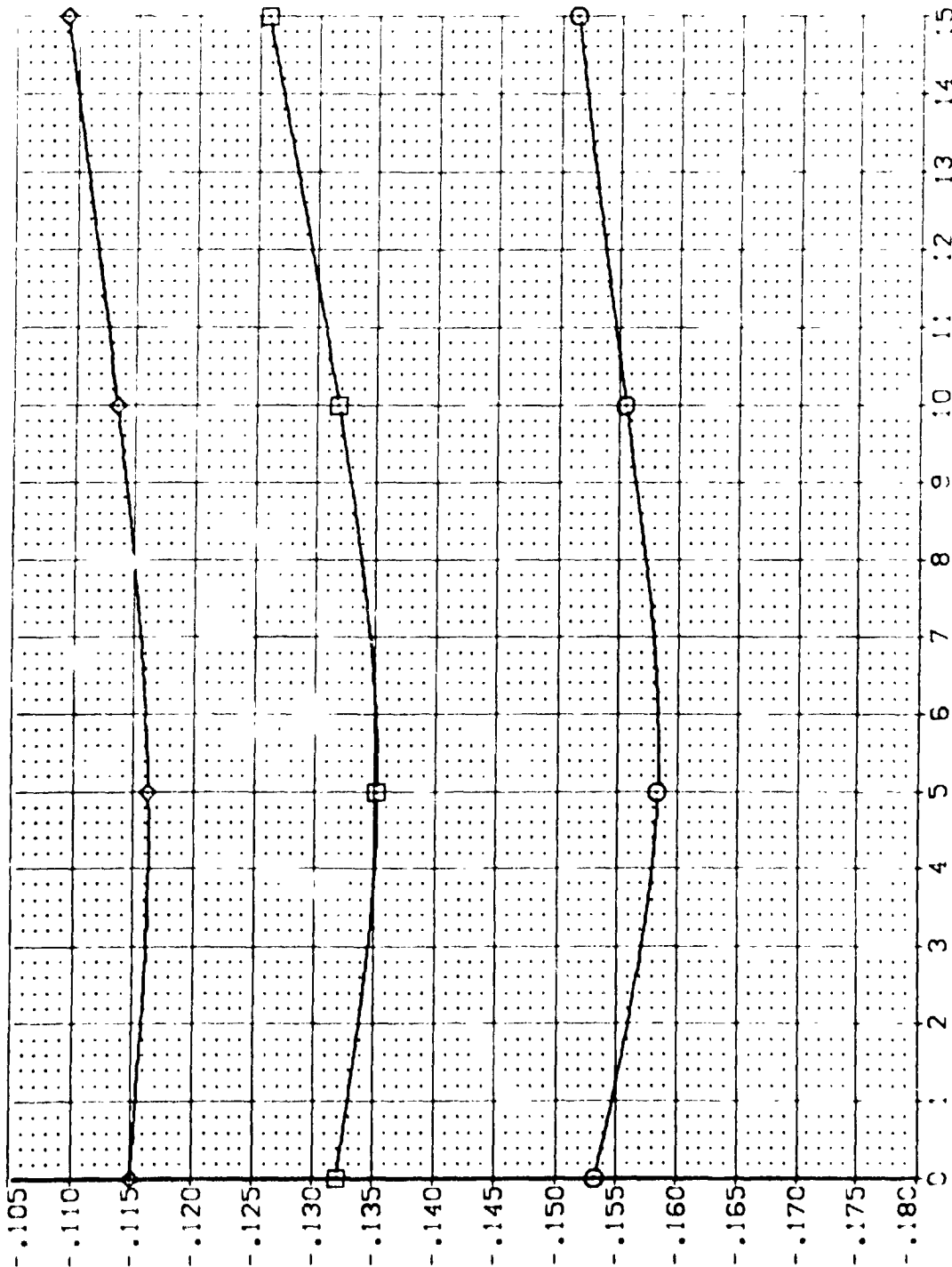


FIG. 42 EFFECT OF AILERON DEFLECTION ON RUDDER HINGE MOMENT

(EEK002)

OBUS

PARAMETRIC VALUES

7-13-73	000:02
WBC:CS	000:01
NC:1-73	000:01
MC:1M	000:01
	ALPHA

.000	DATASET
-11.700	EEK002
.000	EEK021
-10.000	

DATA SOURCE

DATASET	ALIRON
EEK005	5.000
EEK014	15.000

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REFERENCE INFORMATION	SC.F.
2.4210	11.2500
14.2440	11.2500
28.1004	11.2500
32.3610	11.2500
32.0000	11.2500
11.2500	11.2500
11.2500	11.2500

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

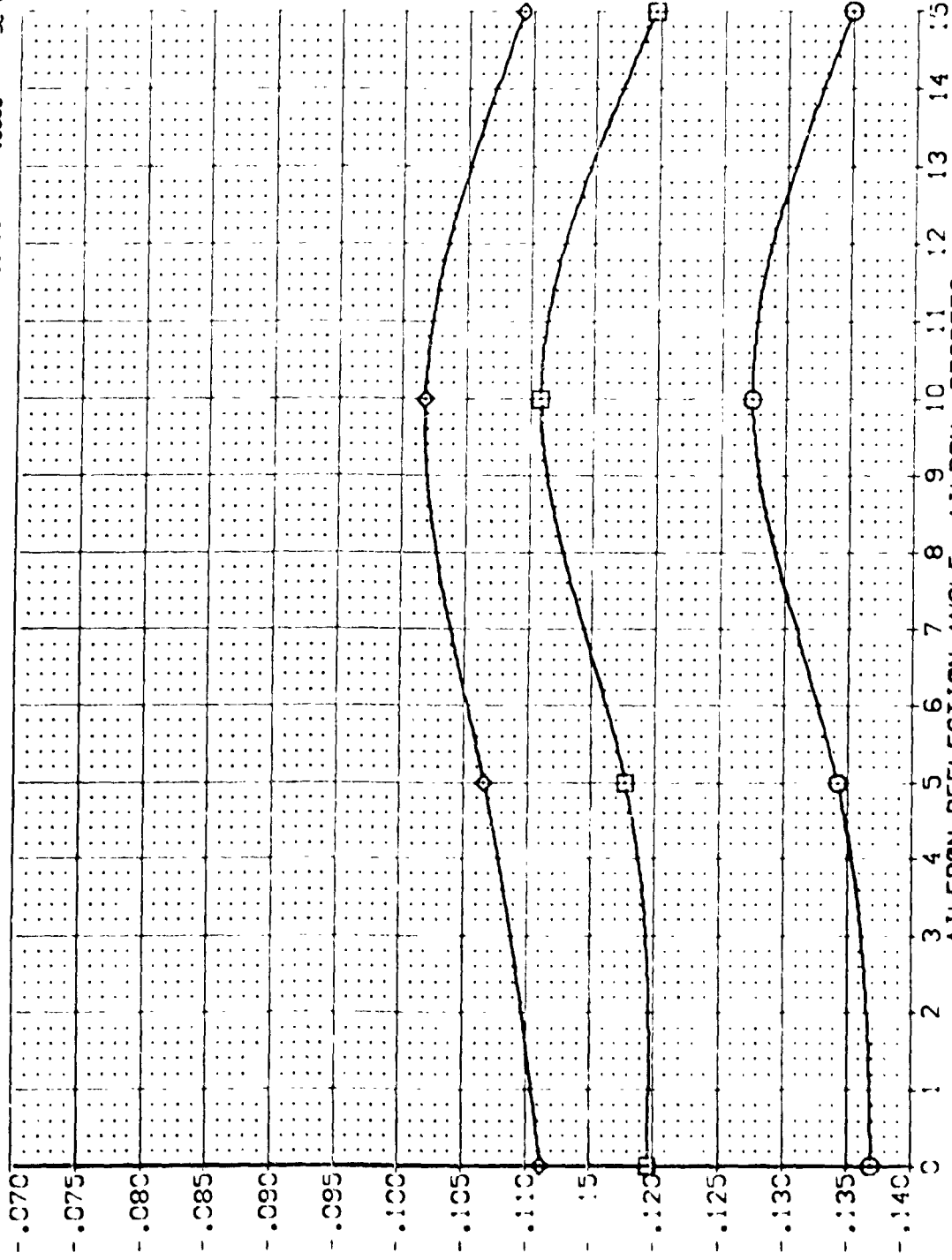


FIG. 42 EFFECT OF AILERON DEFLECTION ON RUDDER HINGEMOMENT

八五

ALFA	20.000
BADH	10.000
CANON	.000
ELEVA	.000

PARAMETRIC VALUE	
BETA	1.500
SOFLA	-10.000
RUDDER	55.000
ELEV-R	-10.000

	DATASET
.000	EEK002
-11.700	EEK002
.000	EEK002
-10.000	EEK002

DATA SOURCE
AIRLON

DATASET	AIRLON	S	L	B
EEX005	5,000			
EEX044	15,000			

	2.421D	SO. FT.
	14.244C	"
	28.100A	"
	32.361B	"
	.000G	"
	11.750H	"
	.000I	"
		SCALE

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

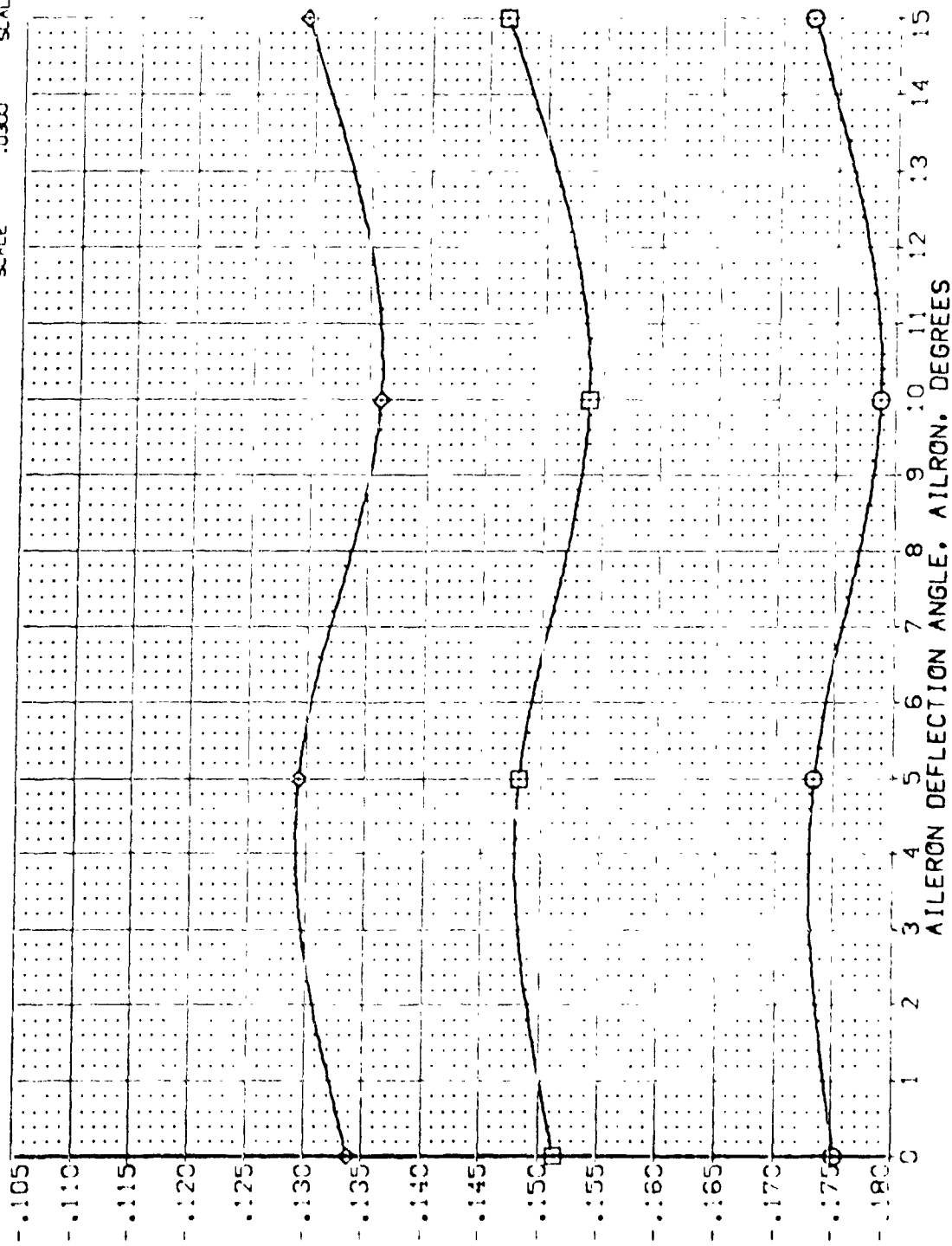


FIG. 42 EFFECT OF AILERON DEFLECTION ON RUDDER HINGEMOMENT

SYMBOL
 ○
 □
 ◇

ALPHA
 .000
 10.000
 20.000

PARAMETRIC VALUES
 MACH 2.000
 ELEVON -10.000
 SPOBRK 55.000
 ELEV-L -10.000

DATA SOURCE
 AILRON
 DATASET
 EEK002
 EEK021

REFERENCE INFORMATION
 SREF 2.4210
 LRF 14.2440
 BRP 28.1004
 YREF 32.3016
 ZREF 11.7500
 SCALE 1.000

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

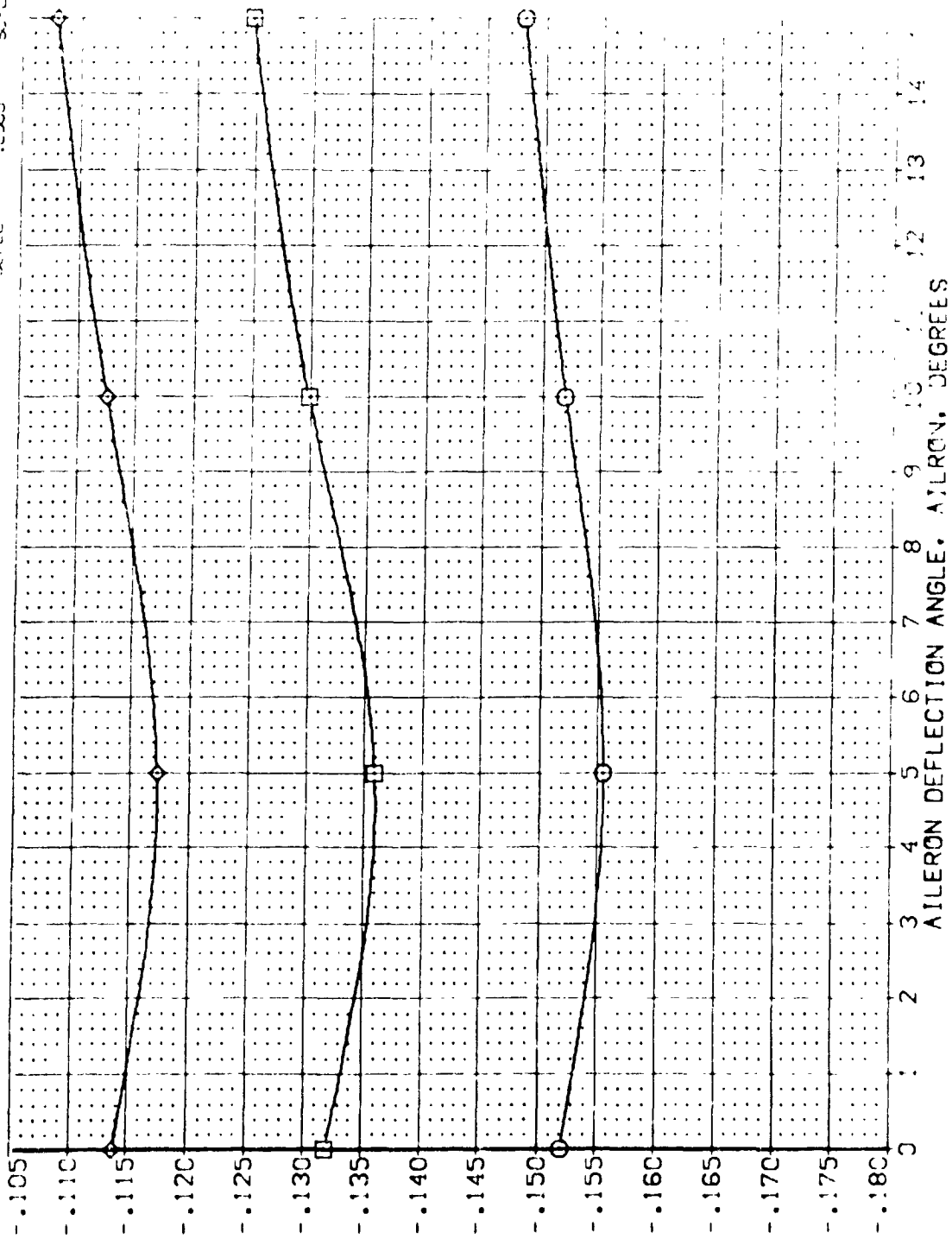


FIG. 42 EFFECT OF AILERON DEFLECTION ON RUDDER HINGE MOMENT

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	DATASET	AILRON	SREF	REFERENCE INFORMATION
◇	.000	1.600	BETA	.000	EEK002	AILRON	SRF	2.4210 SQ.FT.
○	10.000	-10.000	BOFLAP	-11.700	EEK002	LRREF	LRREF	14.2440 IN.
○	20.000	55.000	RUDDER	.000	EEK021	BRREF	BRREF	28.1004 IN.
		ELEV-L	ELEV-R	-10.000		XMRP	XMRP	32.9010 IN.
						YMRP	YMRP	.0000 IN.
						ZMRP	ZMRP	11.2500 IN.
						SCALE	SCALE	.0300

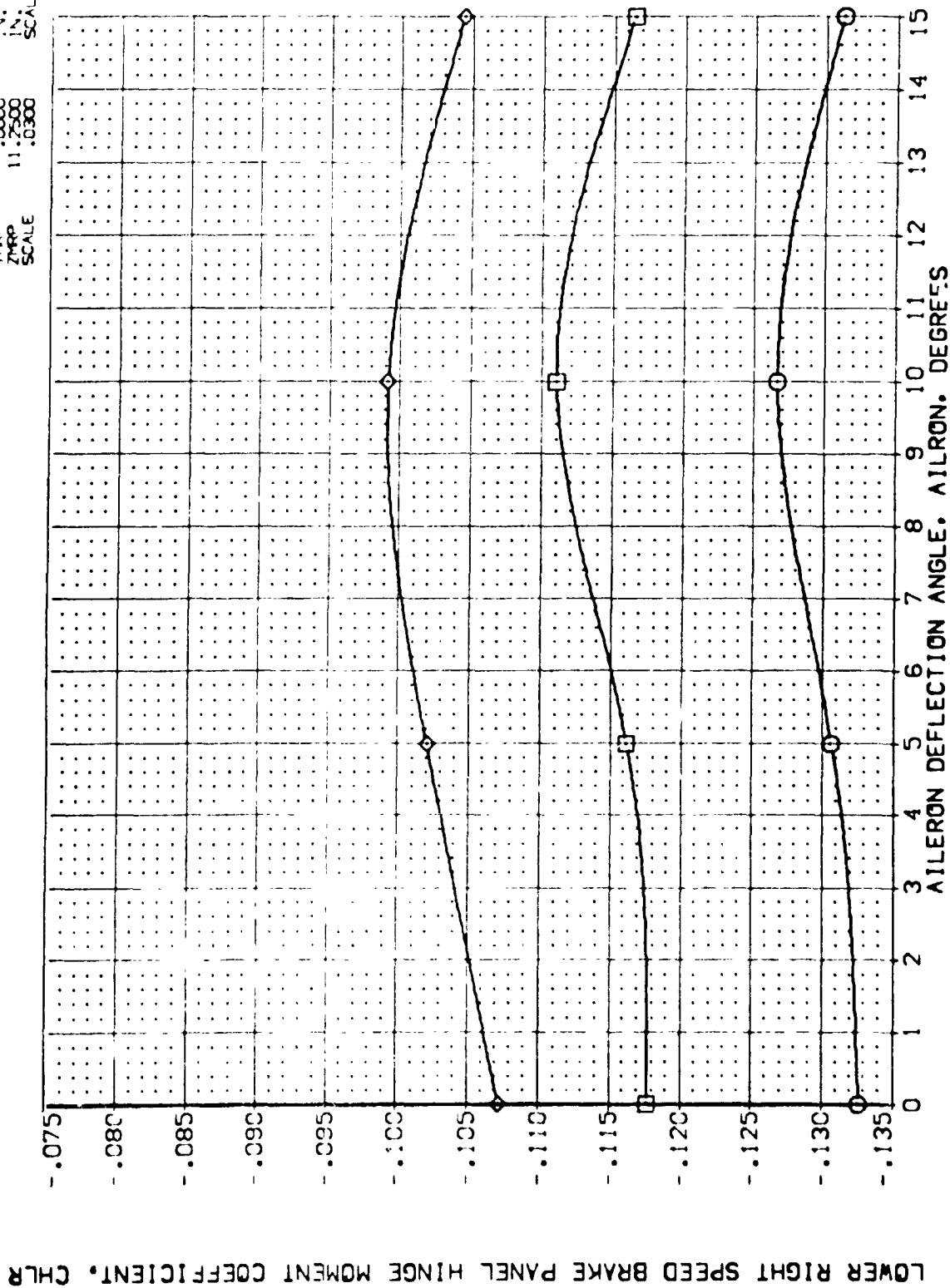


FIG. 42 EFFECT OF AILERON DEFLECTION ON RUDDER HINGEMENT

SYMBOL

ALPHA
0.000
10.000
20.000

MACH
ELEVON
SPDBRK
ELEV-L

PARAMETRIC VALUES
2.000 BETA
-10.000 BDLAP
55.000 RUDDER
-10.000 ELEV-R

.000 DATASET
-11.700 EEK002
.000 EEK021
-10.000

DATA SOURCE
AILRON
.000
10.000

DATASET
AILRON
EEK005
EEK014
5.000
15.000

REFERENCE INFORMATION
SREF
LREF
BREF
XREF
YREF
ZREF
SCALE
2.4210
14.2440
28.1004
32.3010
.0000
11.2500
10.300

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLR

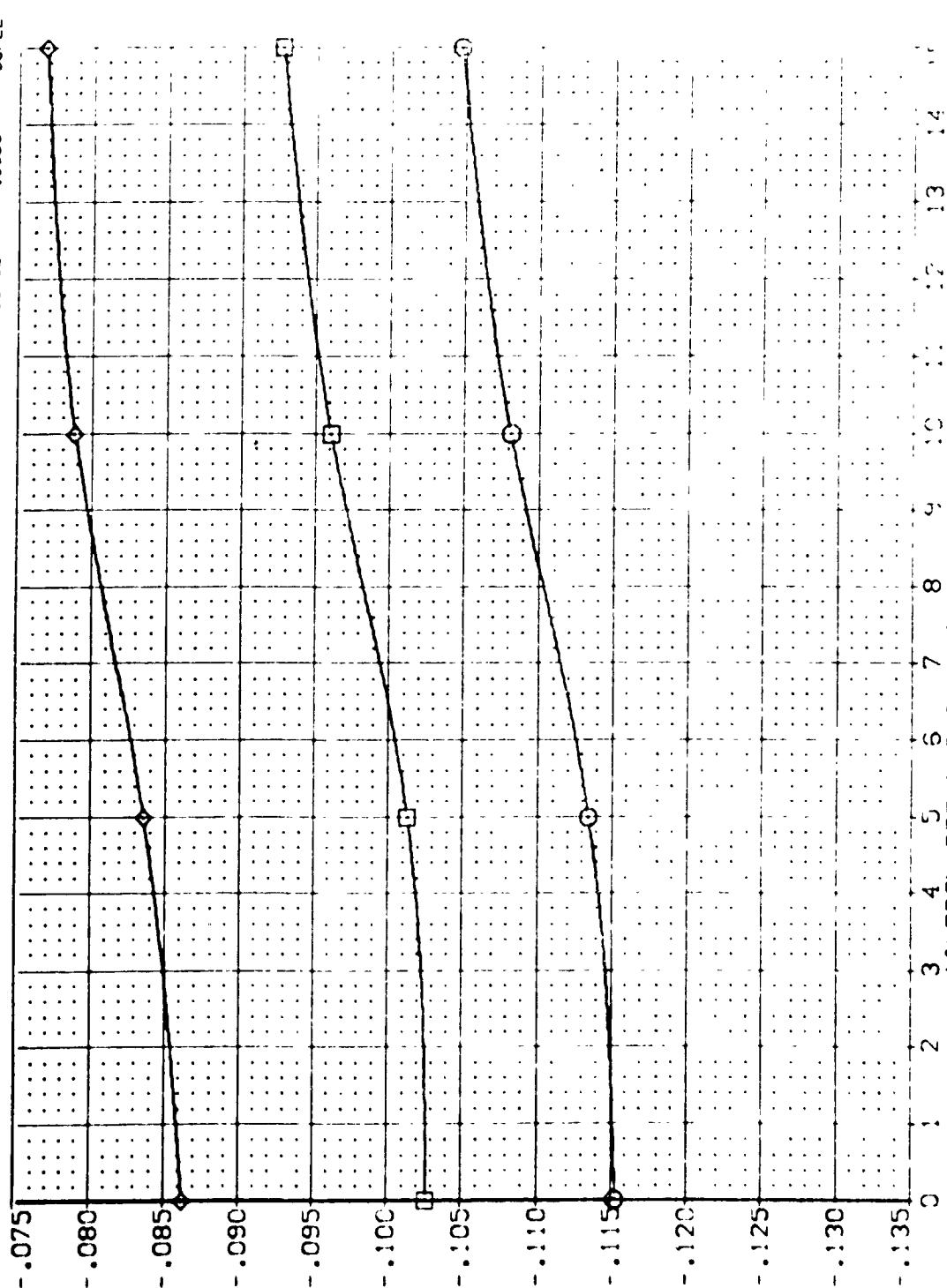


FIG. 42 EFFECT OF AILERON DEFLECTION ON RUDDER HINGEMENT

ARC 97-747 0A53B B C M F W1 V NOM. RN/L (EEK002)

ALPHA	MACH	PARAMETRIC VALUES	DATA SOURCE	DATASET	AILRON	AILRON	SREF	REFERENCE INFORMATION
.000	1.600	BETA	.000	EEK002	.000	5.000	LREF	2.4210
10.000	ELEVON	-10.000	-11.700	EEK002	10.000	15.000	BREF	14.2440
20.000	SPOBRK	55.000	.000	EEK021			XREF	28.1004
	ELEV-L	-10.000	-10.000				YREF	32.3010
							ZREF	.0000
							ZRRP	11.2500
							SCALE	.0300

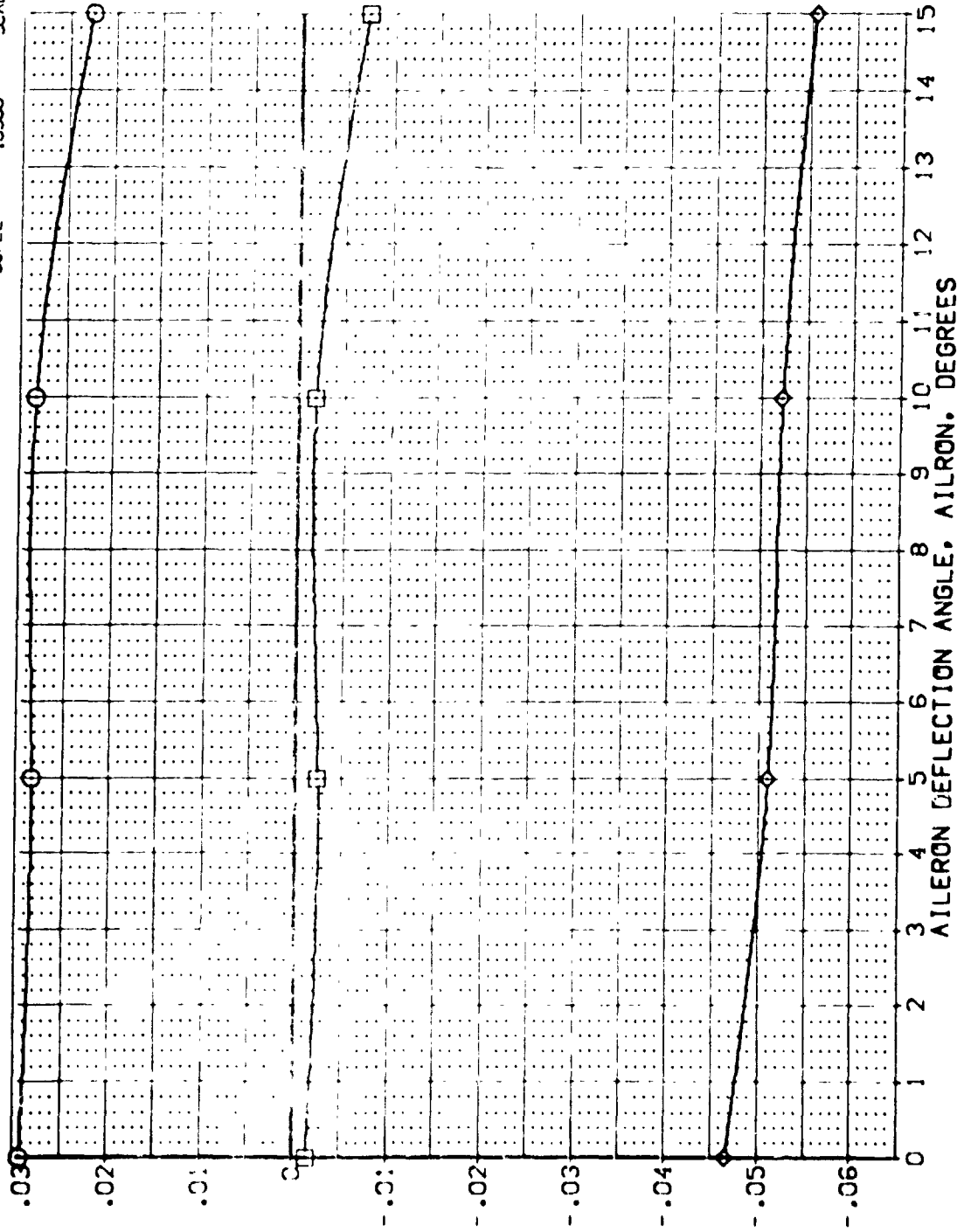


FIG. 4.3 EFFECT OF AILERON DEFLECTION ON BODY/FLAP HINGEMENT

SYMBOL
○ □ ◇

ALPHA
.000
10.000
20.000

PARAMETRIC VALUES
MACH 2.000
ELEVON -10.000
SPOON 55.000
ELEV-L -10.000

BETA
BOFLAP
RUDDER
ELEV-R

DATA SOURCE
AII/RON
DATASET
EEK002
EEK005
EEK014

REFERENCE INFORMATION
SREF 2.4210
LREF 14.2440
BREF 28.1004
MREF 32.3010
VREF 0.000
ZREF 11.2500
SCALE .0300

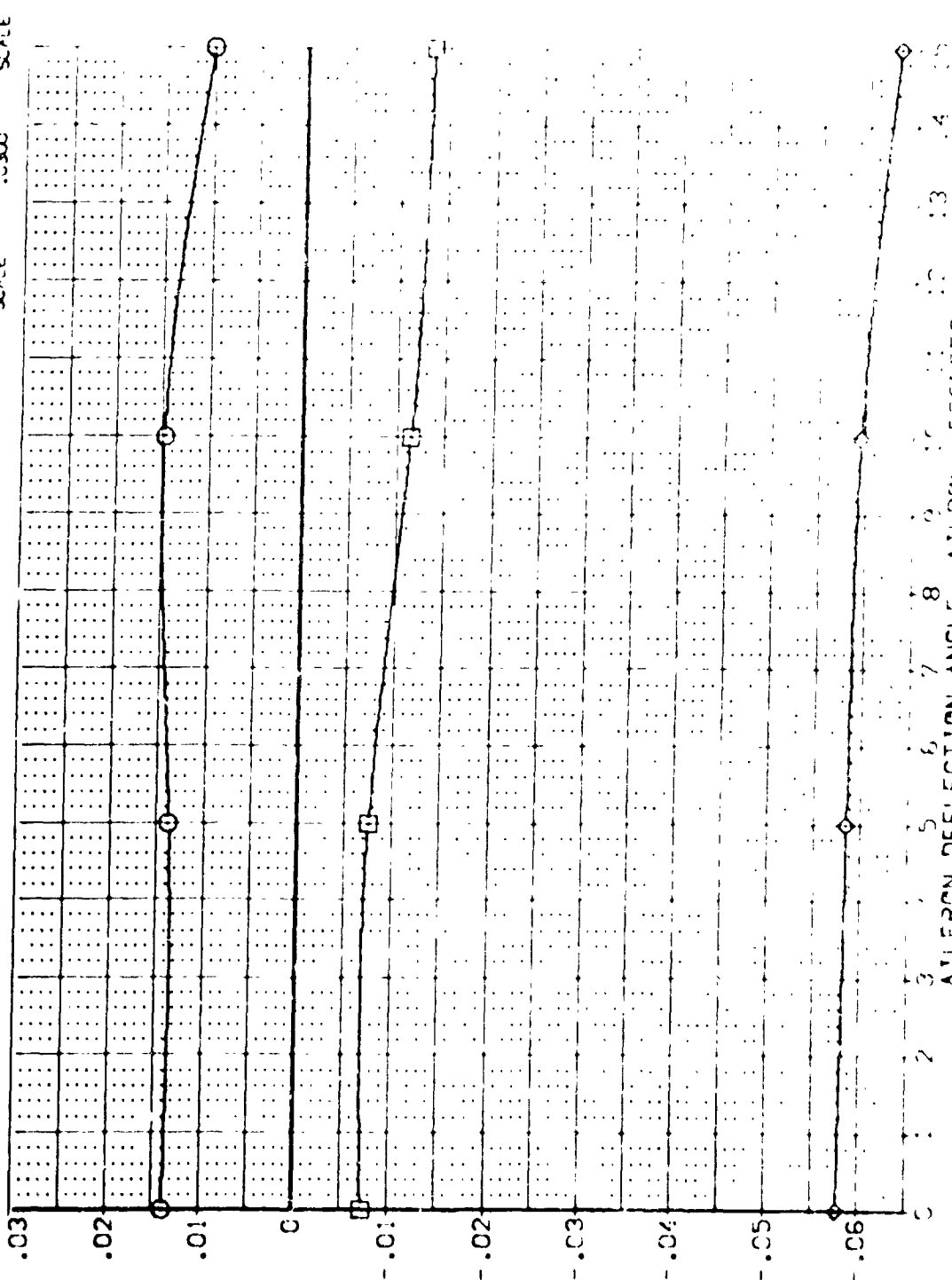


FIG. 43 EFFECT OF AILERON DEFLECTION ON BODYFLAP HINGE MOVEMENT

SYMBOL
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 ◇

ALPHA .000 MACH 1.600
 10.000 ELEVON 7.500
 20.000 BDFLAP -11.700
 RUDDER .000

PARAMETRIC VALUES
 BETA .000
 AILERON -7.500
 SPOILER 55.000
 ELEV-R 15.000

DATA SOURCE
 ELEV-L .000

DATASET
 EEK003

ELEV-L 15.000
 SREF
 LREF
 XMRP
 YMRP
 ZMRP
 SCALE

REFERENCE INFORMATION
 2.4210 SQ. FT.
 14.244C
 28.1004
 32.3010
 .0000
 11.2500
 .0300

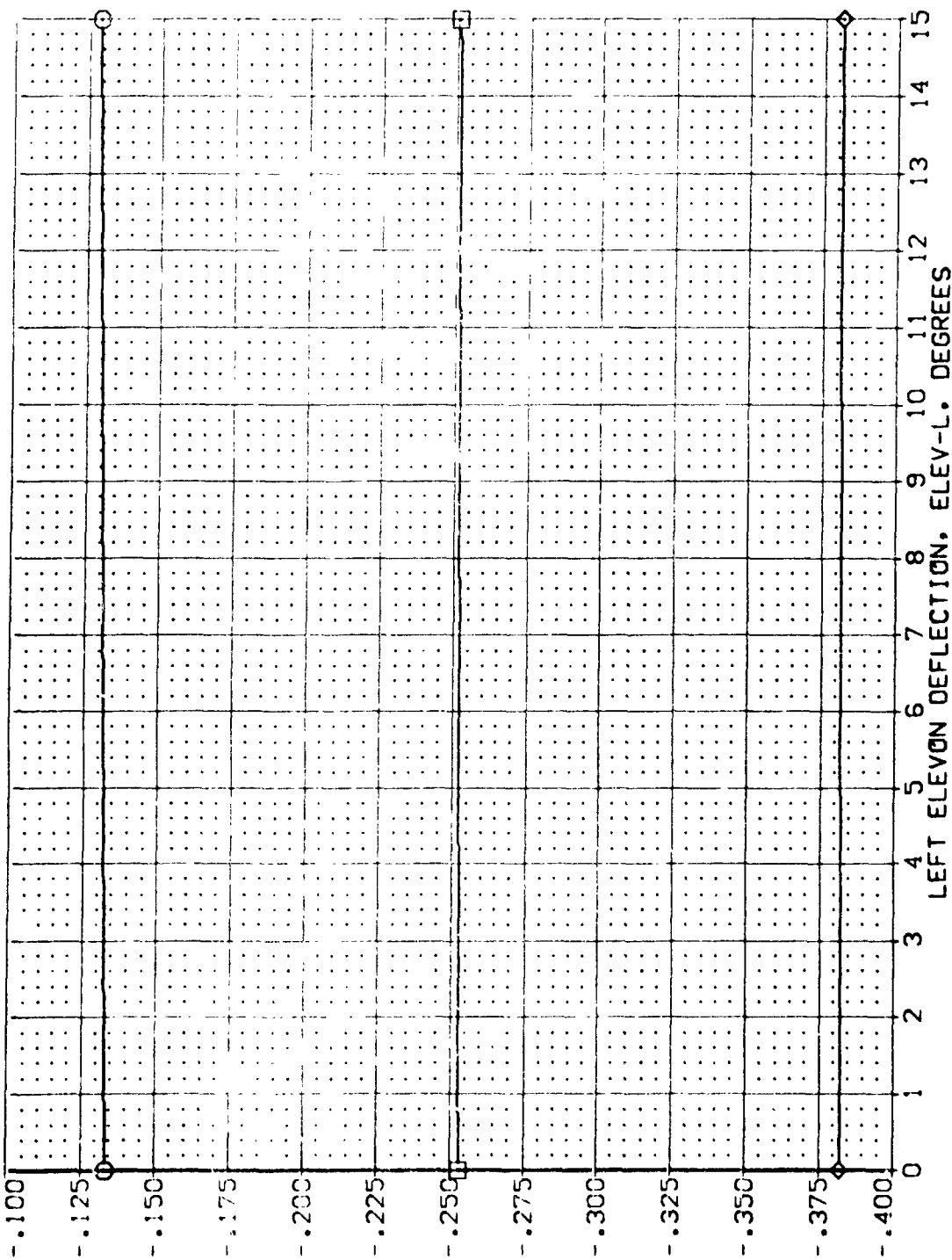


FIG. 44 AILERON INTERACTIONS. RIGHT ELEVON= 15 DEGREES

ARC 97-747 0A53B B C M F W1 V NOM. RN/L (EEK006)

SYMBOL
 ○ □ ◇

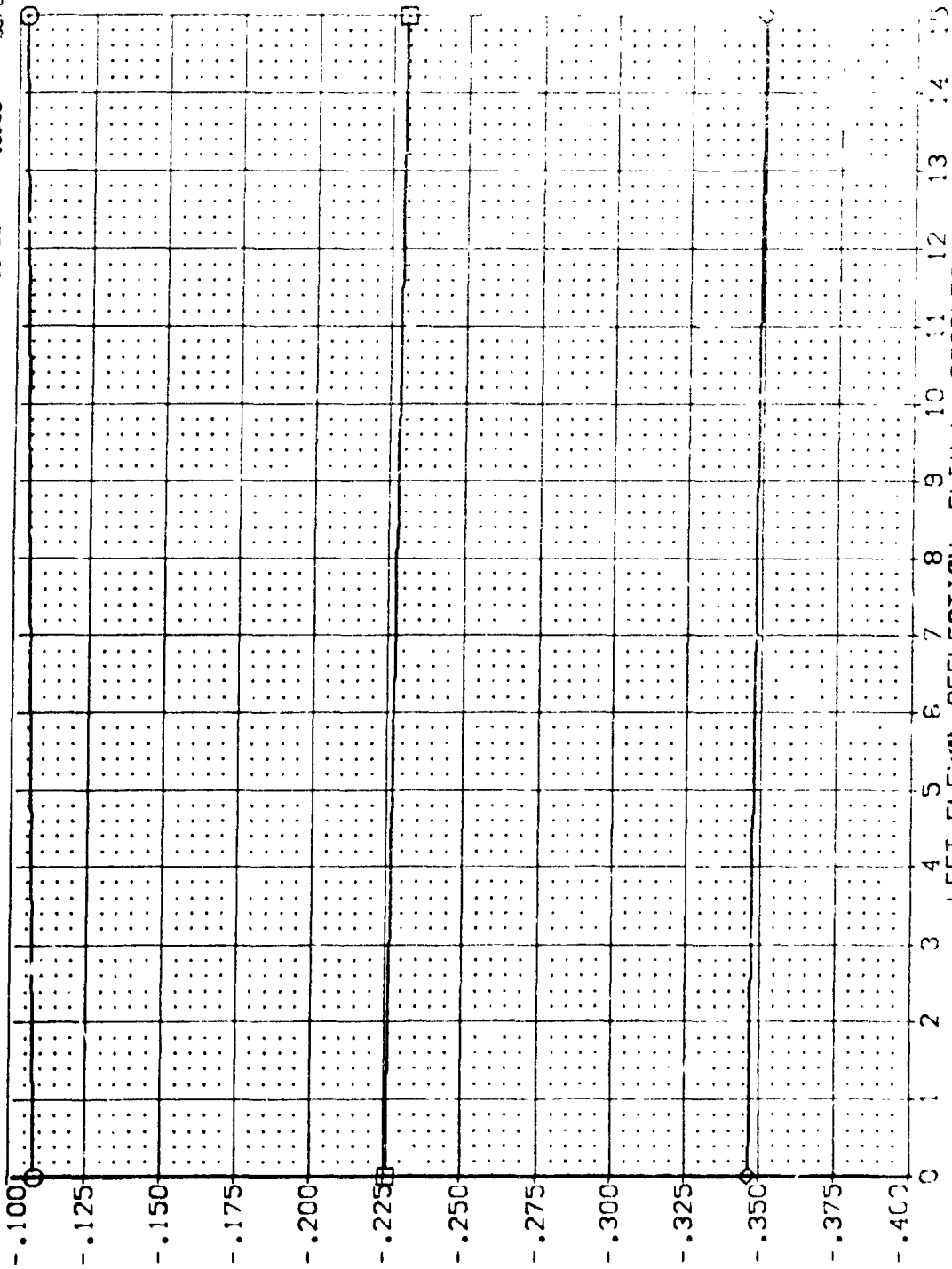
ALPHA
 .000
 10.000
 20.000

PARAMETRIC VALUES
 MACH 2.000
 ELEVON 7.500
 BOFLAP -11.700
 RUDDER .000

DATA SOURCE
 DATASET .000
 ELEV-L -7.500
 EEK006 56.000
 15.000

ELEV-L
 15.000
 EEK003

REFERENCE INFORMATION
 SREF 2.4210
 LREF 14.2440
 BREF 28.1004
 XPRP 32.3010
 YPRP .0000
 ZPRP 11.2500
 SCALE .0300



TOTAL ELEVON HINGE MOMENT COEFFICIENT, C_{HET}

FIG. 44 AILERON INTERACTIONS, RIGHT ELEVON= 15 DEGREES

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15:17

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20. 300
19. 300
18. 300

3000
1000
500

SERIALS DISCARD

MSB-65	000
PCC-V	7505
V-38	009

900X33
135110

DATA SOURCE

2-15-33

DATA SET 3

335

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2.42:0
2.4.2440
28.0004

REFERENCE INFORMATION

2,4213
14,2443
28,3004

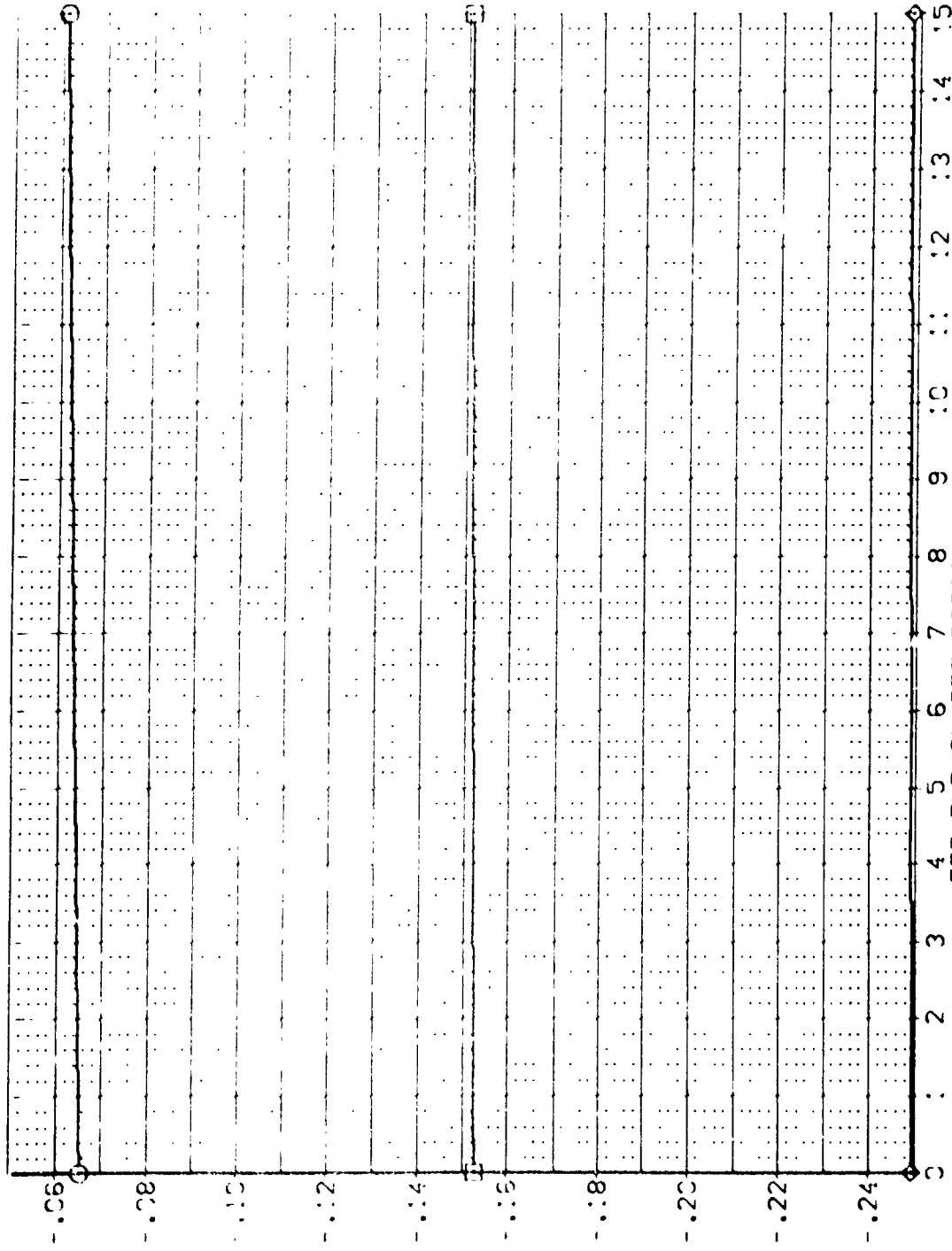


FIG. 44 AILERON INTERACTIONS, RIGHT ELEVON= 15 DEGREES

SYMBOL
◇ 100

ALPHA
.000
10.000
20.000

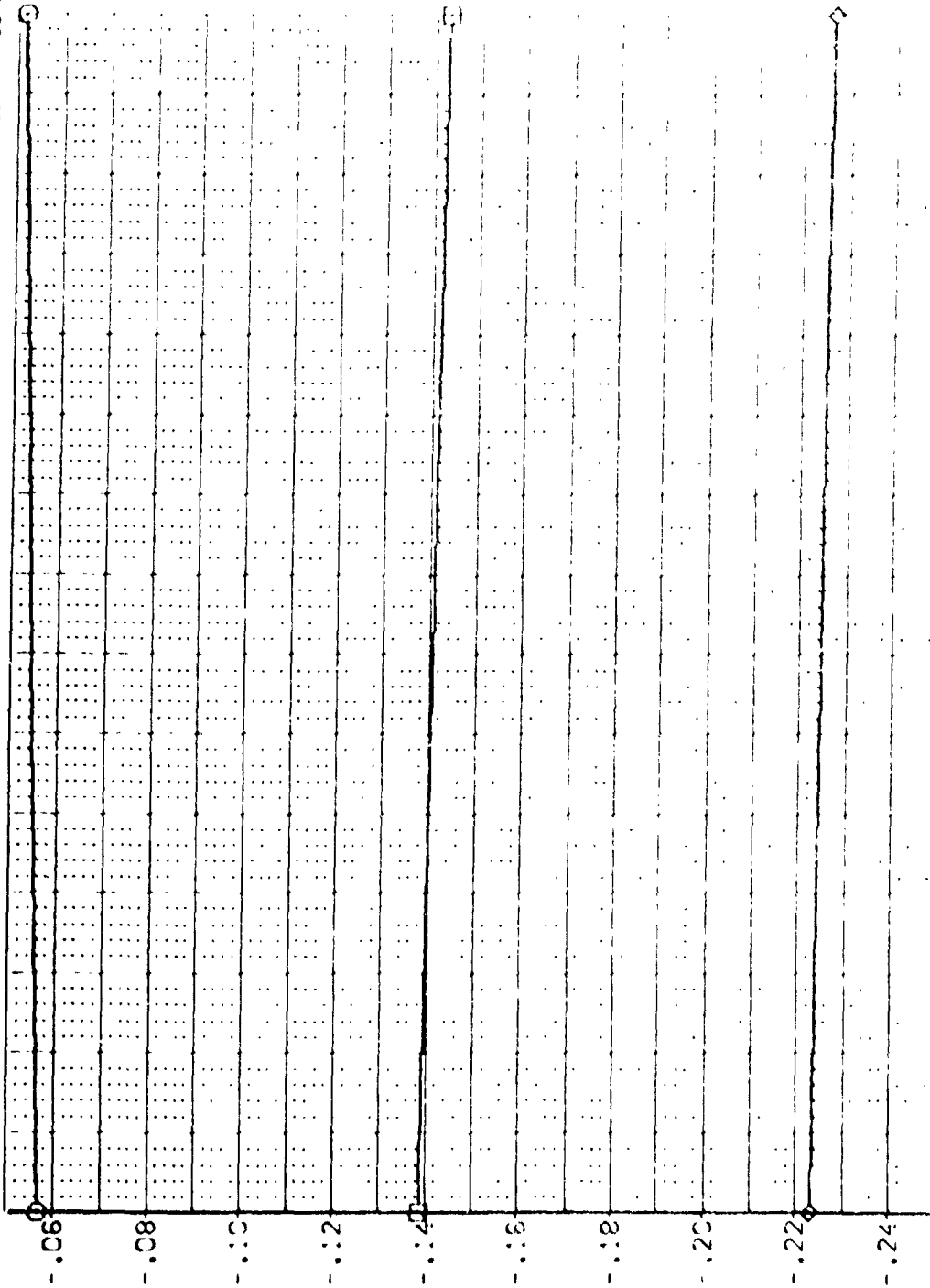
PARAMETRIC VALUES
MACH 2.000 BETA
ELEVON 7.500 AILERON
BDFAP -11.700 SPDRK
RUDDER .000 ELEV-R 15.000

DATA SOURCE
ELEV-L .000
ELEV-R .000

DATASET
EEK006
EEK003

ELEV-L 15.000
ELEV-R 15.000

REFERENCE INFORMATION
2.4210
14.2440
28.1004
32.9000
11.2500
10.0000
SCALE



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
LEFT ELEVON DEFLECTION, ELEV-L, DEGREES

FIG. 44 AILERON INTERACTIONS, RIGHT ELEVON= 15 DEGREES

ARC 97-747 CA538 B C M F W1 V NOM. RN/L (EEK006)

SYMBOL
0.10

ALPHA
.000
10.000
20.000

PARAMETRIC VALUES
W/DH 1.600 BETA
ELEVON 7.500 AILERON
BDFLAP -11.700 SPOILER
RUDDER .000 ELEV-R 15.000

DATA SOURCE
ELEV-L .000
DATASET EEK006
-7.500
55.000
15.000

REFERENCE INFORMATION
SPREF 2.4210 SQ.FT.
REF 14.2410
SPREF 28.1004
MPREF 32.3010
ZMPREF 11.2500
SCALE .0300

OUTBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, CHEO

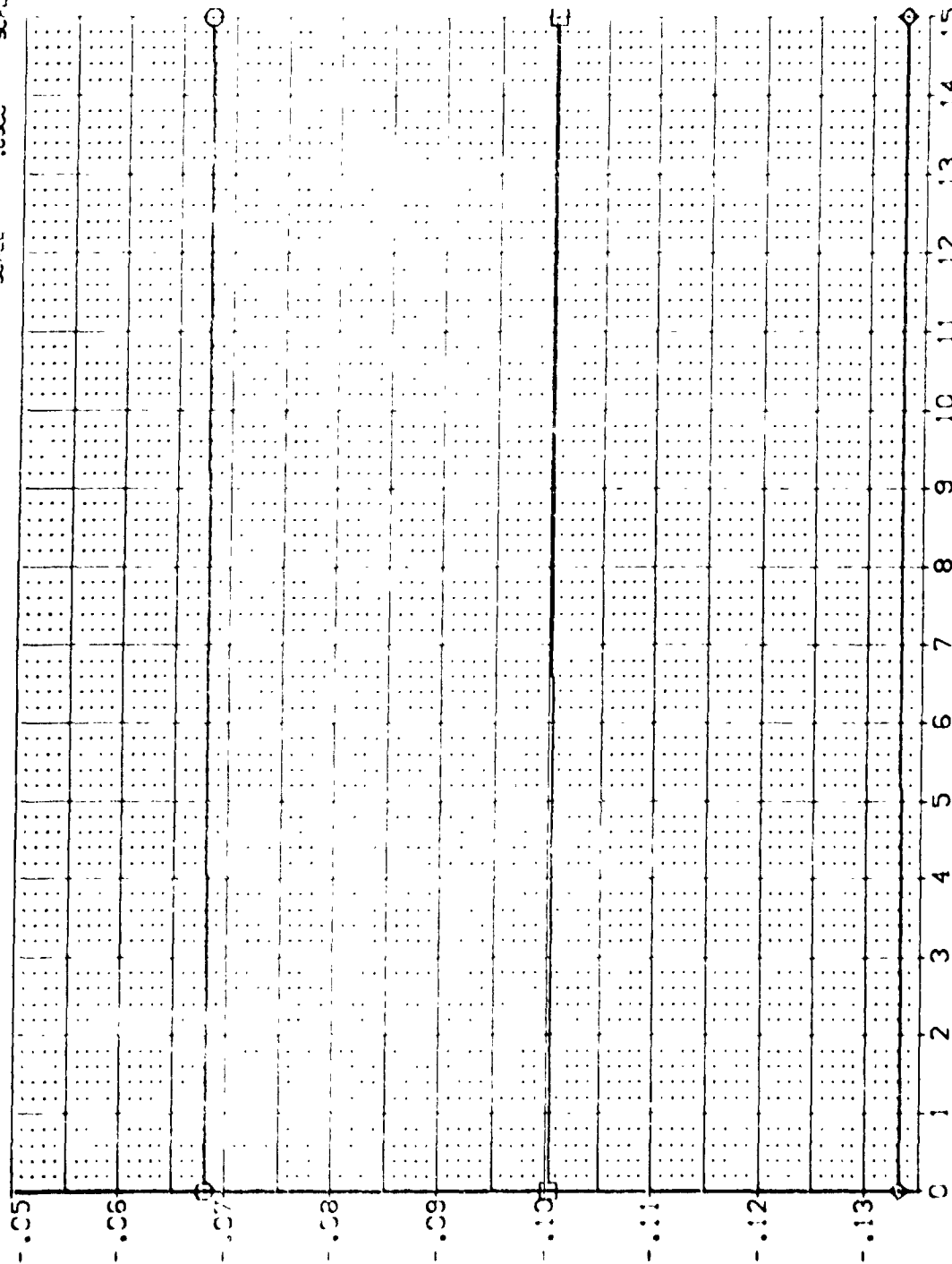


FIG. 44 AILERON INTERACTIONS, RIGHT ELEVON= 15 DEGREES

(900X33)

TOBACCO

ALPHA
-00
10.00
20.00

MACH
ELEVON
BDF LAMP
PLOOR

PARAMETRIC VALUES
BETA
2.000
ALPHA
7.500
SPREAD
-11.700
ELEV-R
.000

15,000
55,000
-7,500
.000

DATA SOURCE
ELEV-L

DATA SET
EEK003

7-8373

3365

REFERENCES

SEE INFORMATION

4210	SG:FT
2440	IN:
1004	IN:
3010	IN:
5000	SCALE
2500	
3300	

OUTBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, C_{HMO}

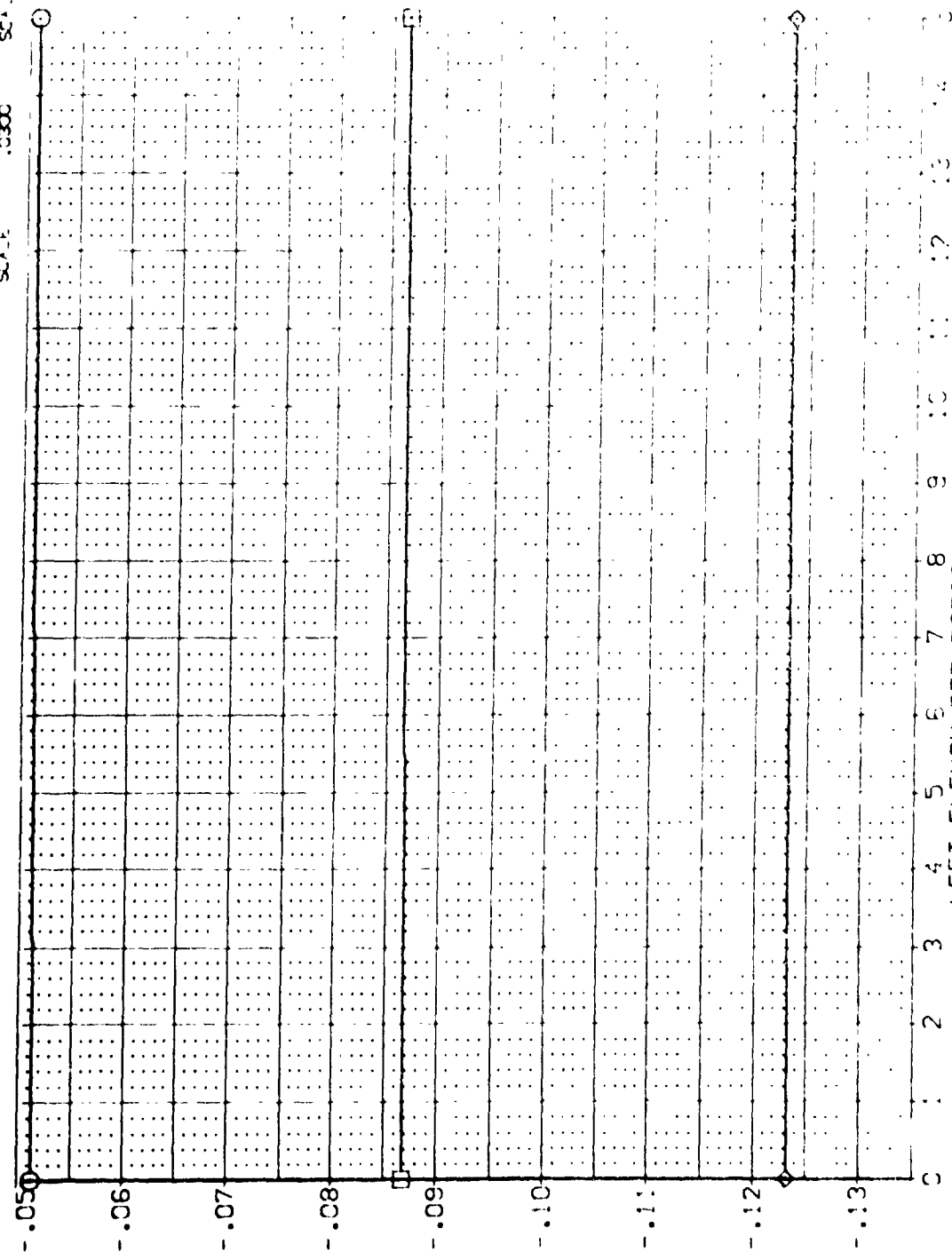


FIG. 44 AILERON INTERACTIONS, RIGHT ELEVON= 15 DEGREES

SYMBOL

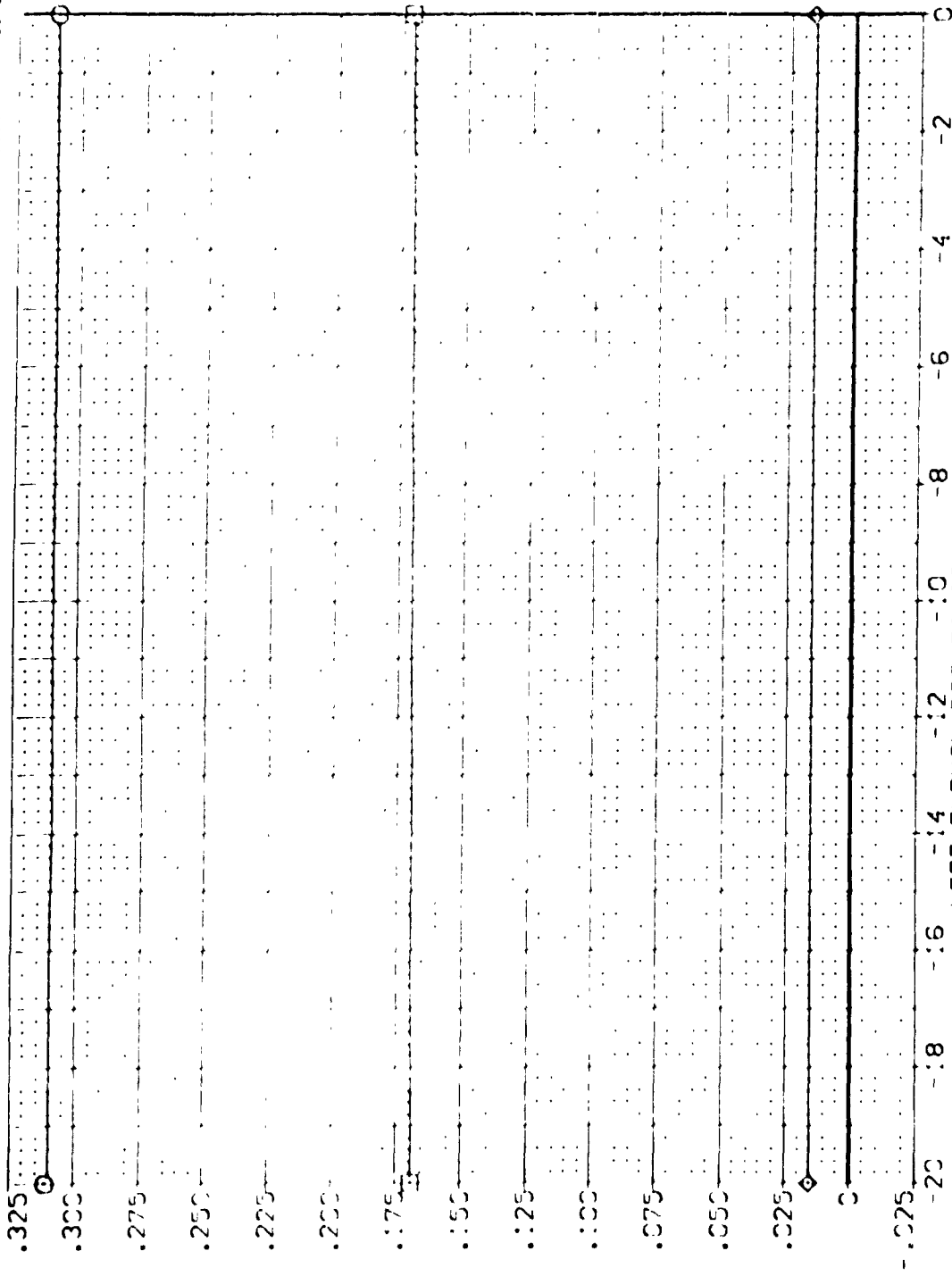
ALPHA
.000
10.000
20.000

PARAMETRIC VALUES
MACH 1.600
ELEVON 10.000
BOEAP 11.700
PUDOR .000

BETA
AILERON
SPORON
ELEV-R

DATA SOURCE
.000 DATASET
10.000 EEK021
56.000
-20.000

REFERENCE INFORMATION
SREF 2.4210
DREF 14.2440
SPREF 28.1000
YMPD 32.3000
ZMPD 11.2500
SCALE .0300



TOTAL ELEVON HINGE MOMENT COEFFICIENT, C_{HET}

FIG. 45 AILERON INTERACTIONS, RIGHT ELEVON=-20 DEGREES
LEFT ELEVON DEFLECTION, ELEV-L, DEGREES

SYMBOL
○ ○ ○
◇

ALPHA
.000
10.000
20.000

PARAMETRIC VALUES
MACH 2.000
ELEVON -10.000
BOFLAP -11.700
RUDDER .000

BETA
ALLPON
SPDRK
ELEV-R

DATA SOURCE
DATASET ELEV-L
EEO021 .000
10.000
55.000
-20.000

REFERENCE INFORMATION
SPREF 2.4210
LRGE 14.2640
BREF 28.1004
XPROP 32.3010
YPROP .0000
ZPROP 11.2500
SCALE .0300

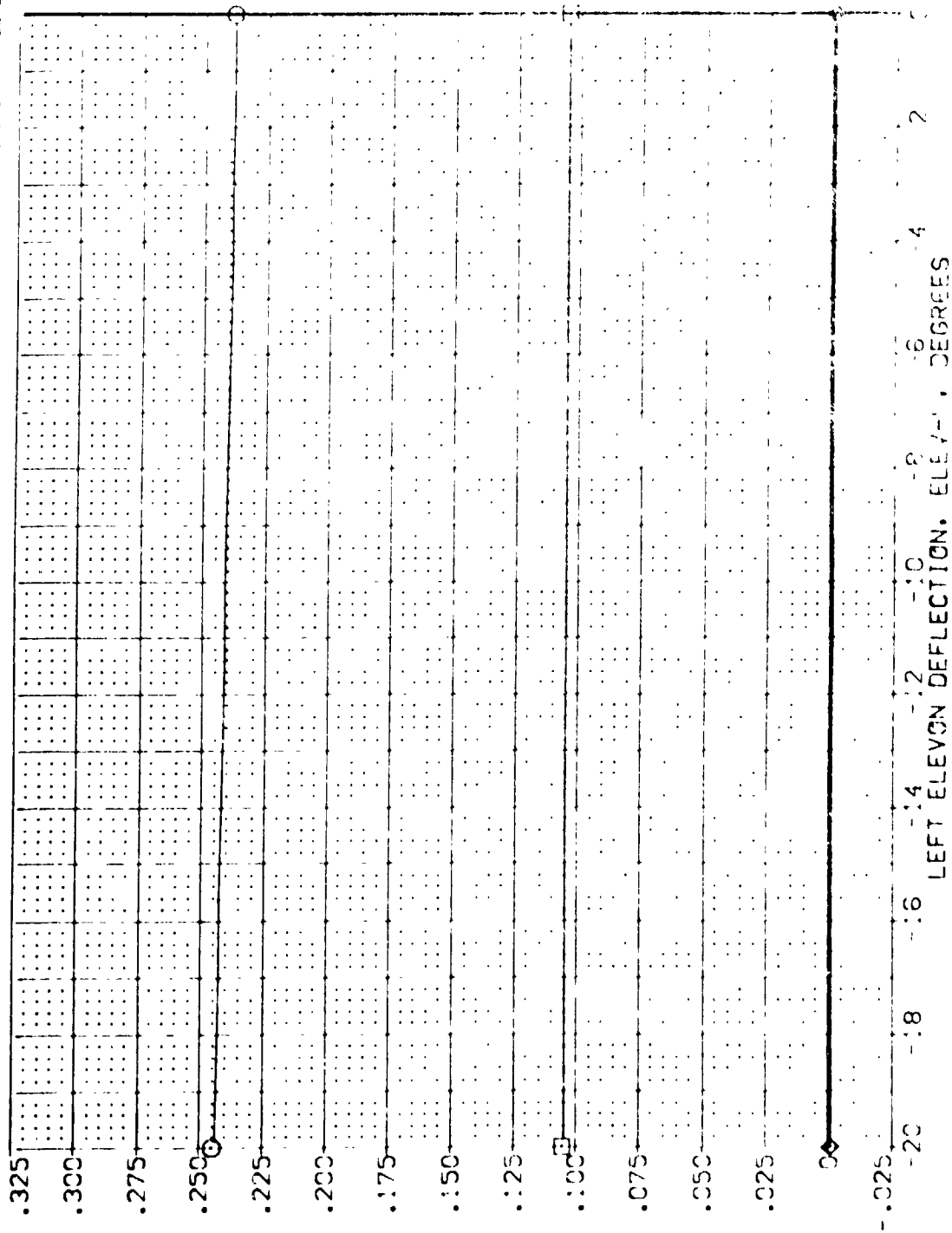


FIG. 45 AILERON INTERACTIONS, RIGHT ELEVON=-20 DEGREES

0.15
Tobias

A. P. 3
 . 300
 19. 300
 20. 300

PARAMETRIC VALUES	
ALPHA	BETA
.000	1.600
10.000	-10.000
20.000	-10.000
	10.000
	.000

DATA SOURCE	DATASET	ELEV-L
	.000	
	10.000	.000
	56.000	
	72.000	

6:0433
135V1VU

- 70.000
- 1.373

100-
100-
100-

EVIDENCE

1555

6000

INBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, CHEI

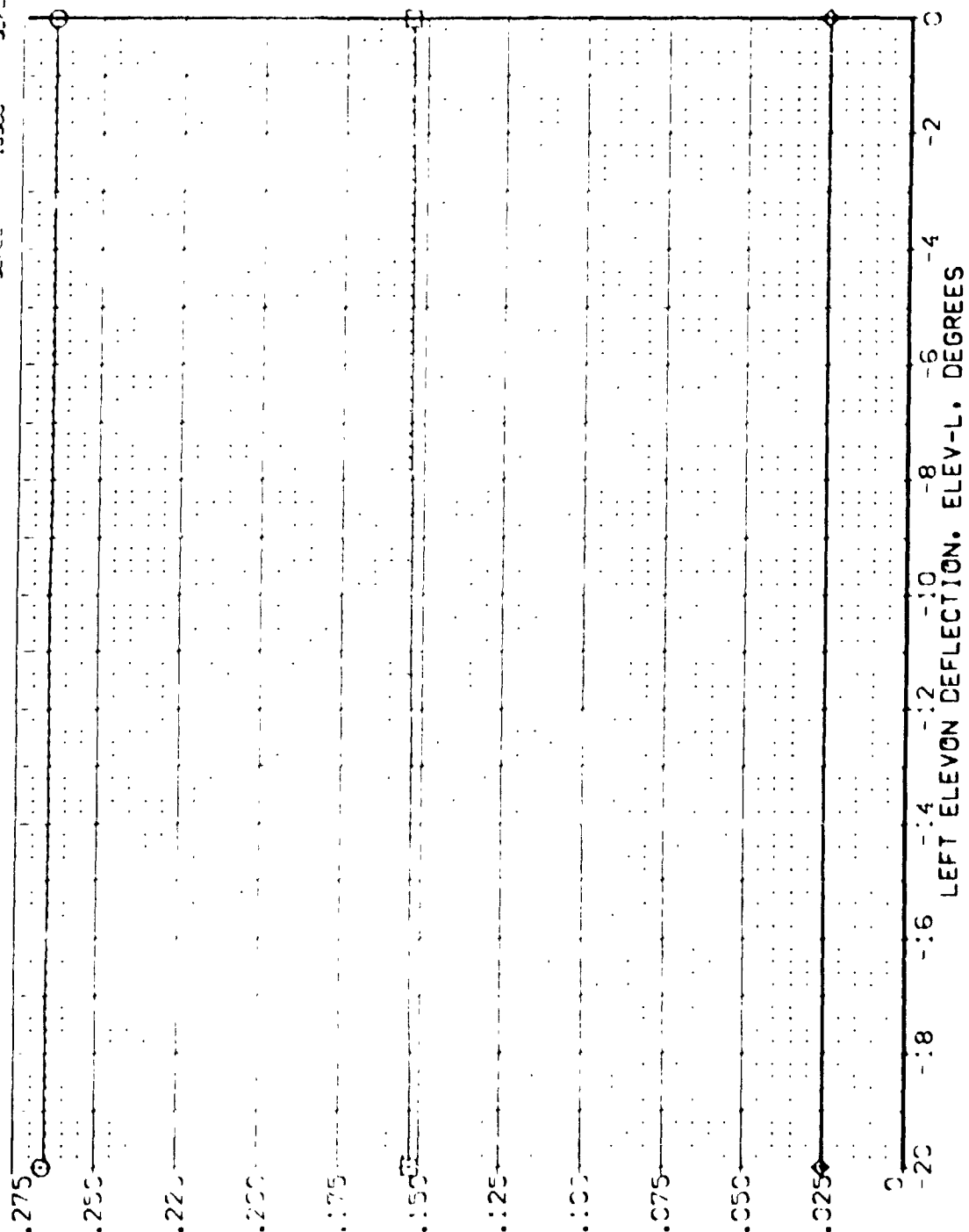


FIG. 45 ALLERON INTERACTIONS, RIGHT ELEVON=-20 DEGREES

SYMBOL
 □
 □
 ◇

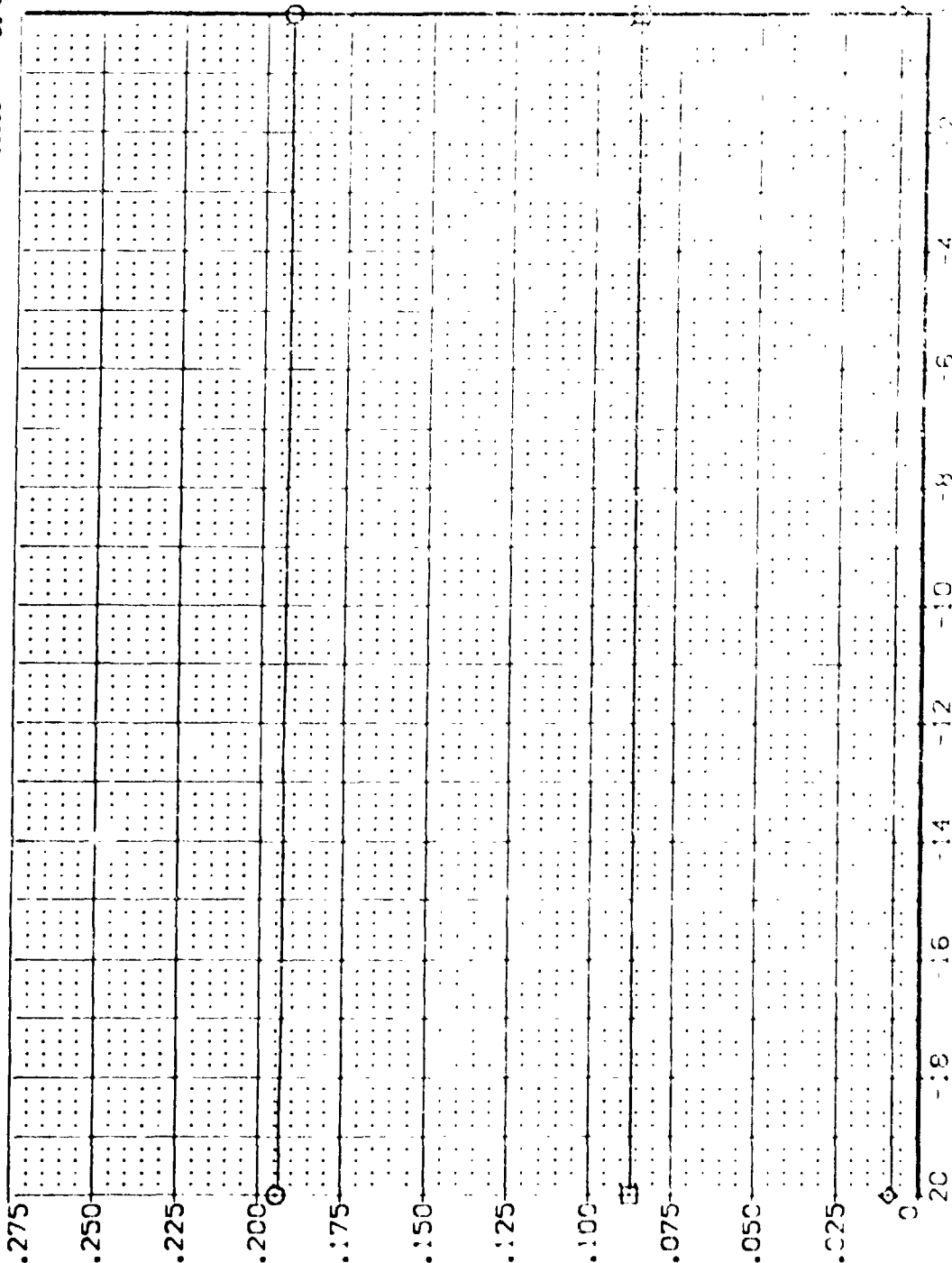
ALPHA
 .000
 10.000
 20.000

PARAMETRIC VALUES
 MACH 2.000
 ELEVON -10.000
 BOFLAP -11.700
 RUDDER .000

BETA
 AILERON 10.000
 SPOILER 55.000
 ELEV-R -20.000

DATA SOURCE
 ELEV-L .000
 DATASET EEK021
 .000
 10.000
 55.000
 -20.000

REFERENCE INFORMATION
 SREF 2.4210
 LREF 14.2410
 BREF 28.1004
 XMRP 32.3010
 YMRP .0000
 ZMRP 11.2500
 SCALE .0300



INBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, CHEI

FIG. 45 AILERON INTERACTIONS, RIGHT ELEVON=-20 DEGREES
 LEFT ELEVON DEFLECTION, ELEV-L, DEGREES

ARC 97-747 3A53B B C M F W I V NOM. RN/L (EEK021)

SYMBOL

ALPHA
.000
10.000
20.000

WACH
ELEVON
BOX LAP
PJOOR

PARAMETRIC VALUES
BETA
ALIRON
SPOORM
ELEV-R

.000
1.800
5.000
-11.700
.000

.000
10.000
55.000
-20.000

DATA SOURCE

ELEV-L
EEL019

SREF
ELEV-L
EEL019

REFERENCE INFORMATION
SC.FT.
2.4210
14.2440
28.1024
32.3010
11.2500
SCALE

OUTBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, CH20

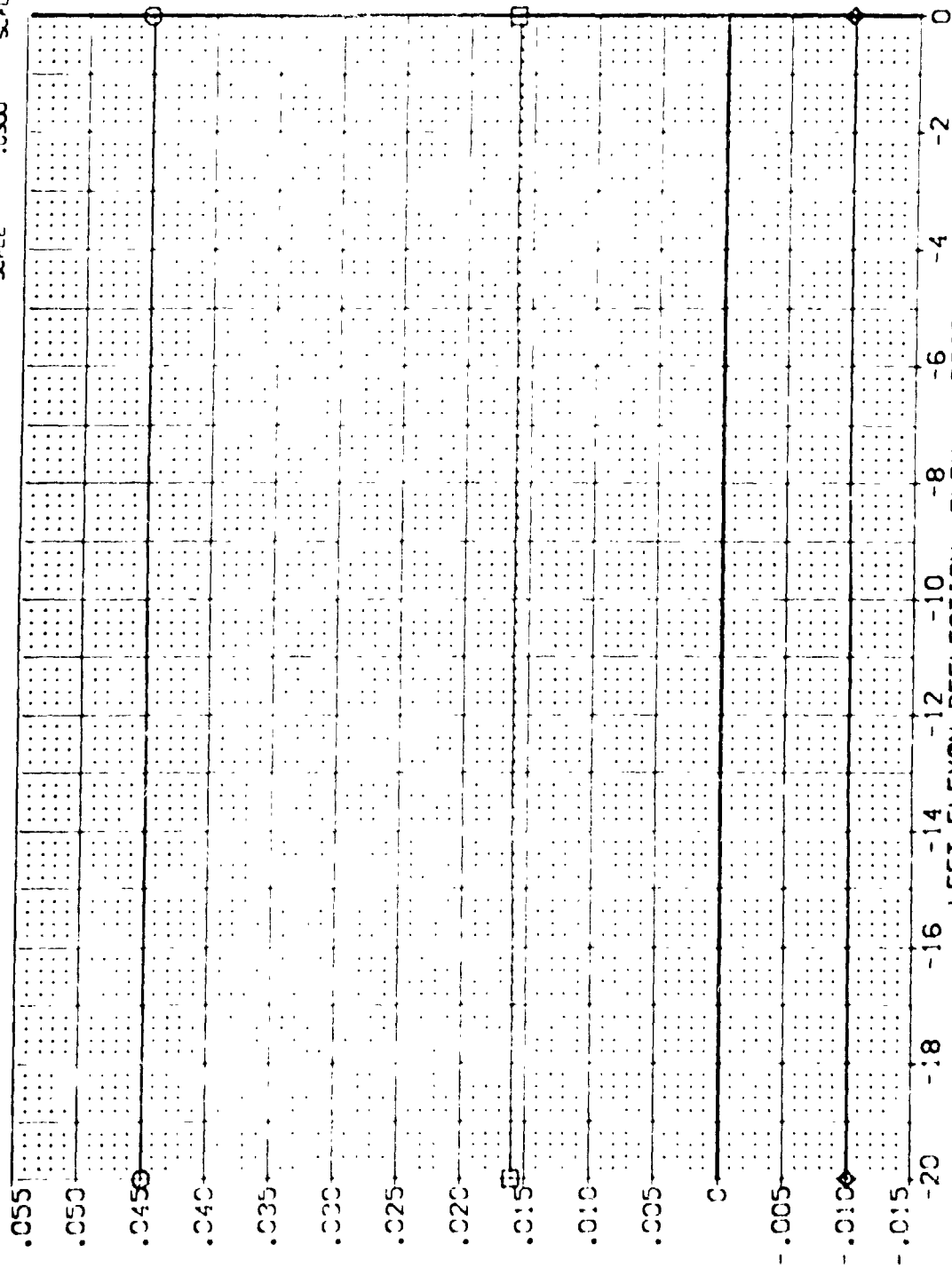


FIG. 45 AILERON INTERACTIONS. RIGHT ELEVON=-20 DEGREES

SYMBOL
◇ ○

ALPHA
.000
10.000
20.000

PARAMETRIC VALUES
MACH 2.000
ELEVON -10.000
BOFLAP -11.700
RUDDER .000

BETA
AILRON
SPOBRK
ELEV-R

DATA SOURCE
ELEV-L
ELEV-L
ELEV-L

DATASET
.000
10.000
55.000
-20.000

EEK021

REFERENCE INFORMATION
SPREF 2.4210
DEE 14.2440
BREF 28.1004
APREF 37.3010
ZREF 11.2500
SCALE .0300

OUTBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, CHEO

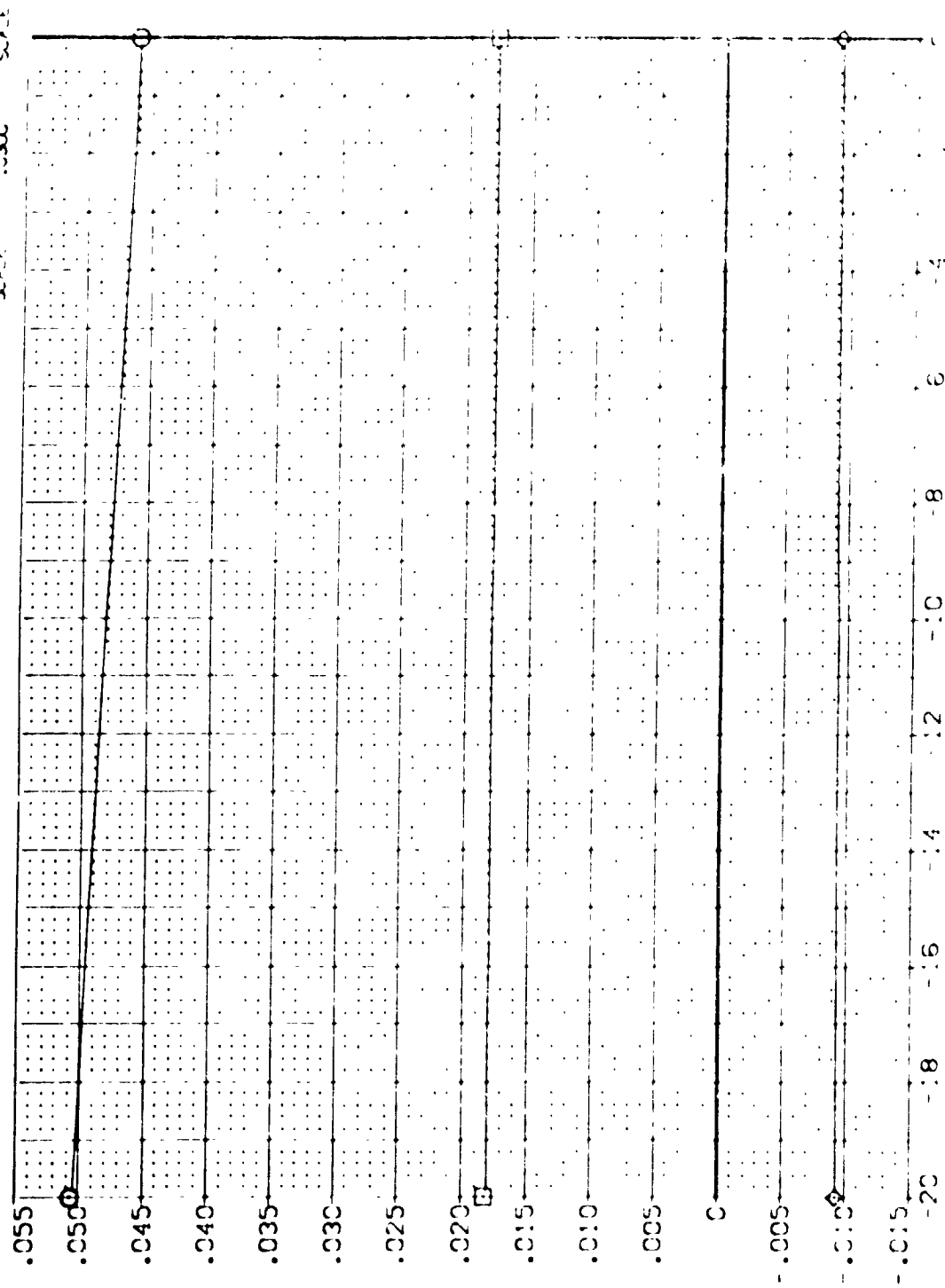


FIG. 45 AILERON INTERACTIONS, RIGHT ELEVON=-20 DEGREES
LEFT ELEVON DEFLECTION, ELEV-L, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION	SO. FT.
(VEP003)	ARC 97-747 C-538 B C H F V	15.000	.000	-11.700	55.000	SREF	2.4210
(VEP011)	ARC 97-747 C-538 B C H F V	.000	.000	-11.700	55.000	LREF	14.2440
(VEP002)	ARC 97-747 C-538 B C H F V	-10.000	.000	-11.700	55.000	BRE	28.1004
(VEP019)	ARC 97-747 C-538 B C H F V	-20.000	.000	-11.700	55.000	XMF	32.3010
(VEP023)	ARC 97-747 C-538 B C H F V	-20.000	.000	-11.700	55.000	YMRP	11.2500
						SCALE	10300

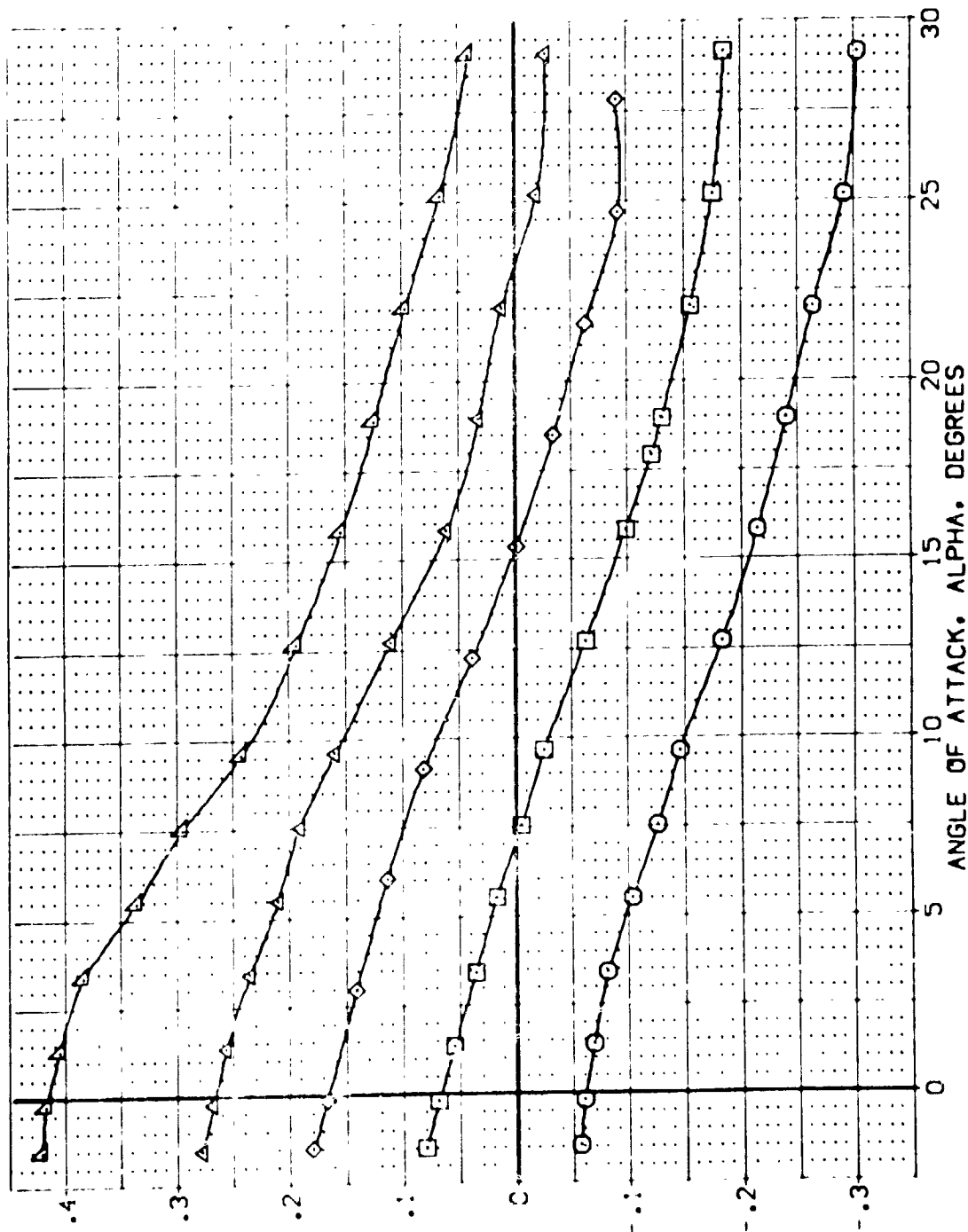
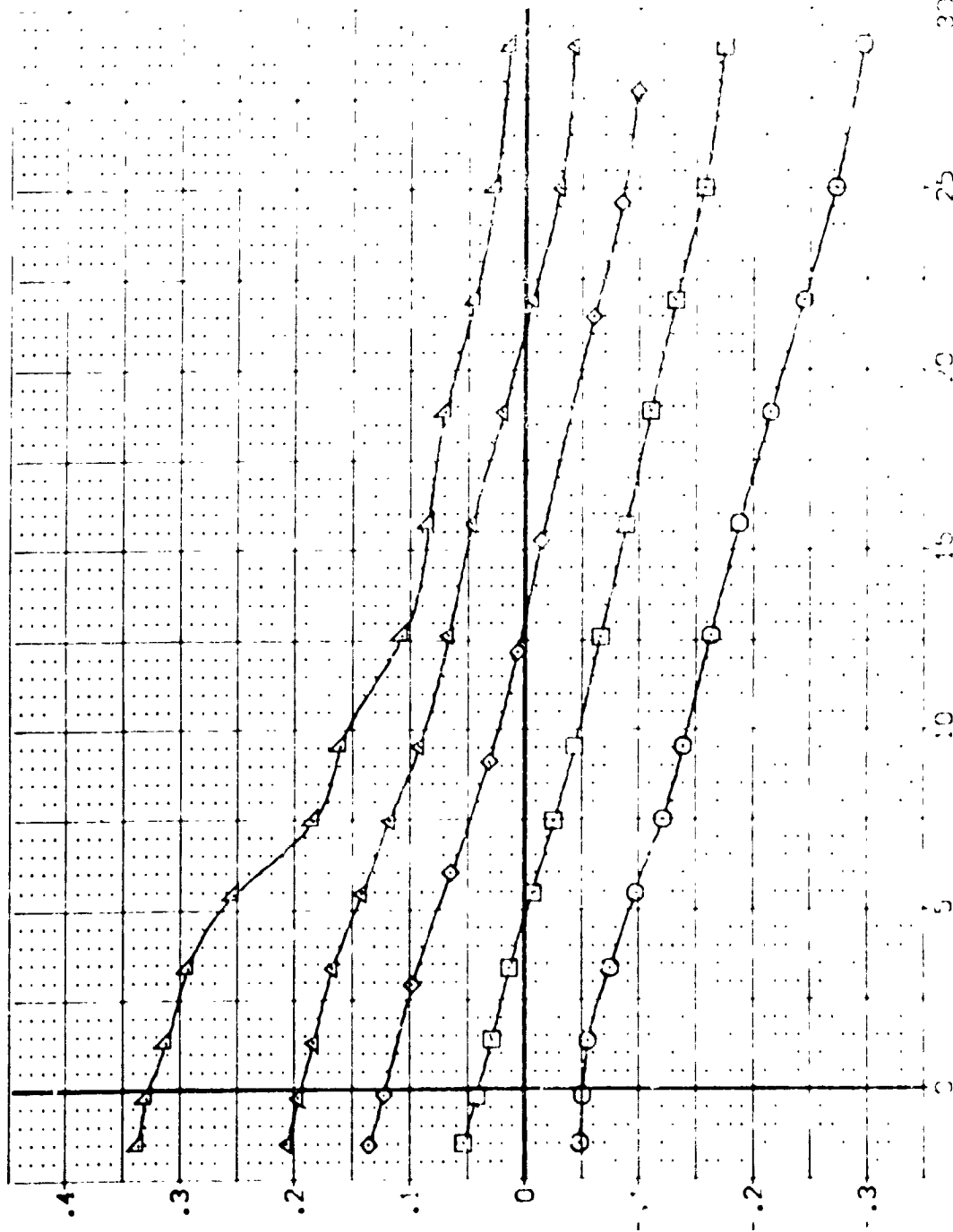


FIG. 46 ELEVON PANEL HINGEMENTS VERSUS ANGLE OF ATTACK

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	BOFLAP	SPDRK	REFERENCE INFORMATION
[YEC003]	ARC 97-747 D4538 B C M F V1 V	15.000	.000	-.700	55.000	SREF 2.4210 SQ.FT.
[YEC011]	ARC 97-747 D4538 B C M F V1 V	.000	.000	-.700	55.000	LRFF 14.2440
[YEC002]	ARC 97-747 D4538 B C M F V1 V	-10.000	.000	-.700	55.000	BRFF 28.1004
[YEC019]	ARC 97-747 D4538 B C M F V1 V	-20.000	.000	-.700	55.000	PRDF 30.3000
[YEC023]	ARC 97-747 D4538 B C M F V1 V		.000	-.700	55.000	TRDF 11.2500
						SCALE .0300

INBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, CHEI



ANGLE OF ATTACK, ALPHA, DEGREES

FIG. 46 ELEVON PANEL HINGEMOMENTS VERSUS ANGLE OF ATTACK

(B)MAC = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	BDFLAP	SPDBRK	REFERENCE INFORMATION
[YK003]	ARC 97-747 OAS38 B C M F VI	15.000	.000	-11.700	55.000	SREF 2.4210
[YK011]	ARC 97-747 OAS38 B C M F VI	10.000	.000	-11.700	55.000	LREF 14.2440
[YK002]	ARC 97-747 OAS38 B C M F VI	-10.000	.000	-11.700	55.000	BREF 28.1004
[YK019]	ARC 97-747 OAS38 B C M F VI	-20.000	.000	-11.700	55.000	XMPP 32.3010
[YK023]	ARC 97-747 OAS38 B C M F VI	-20.000	.000	-11.700	55.000	YMPP 0.000
						ZMPP 11.2500
						SCALE .0300

OUTBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, CHEO

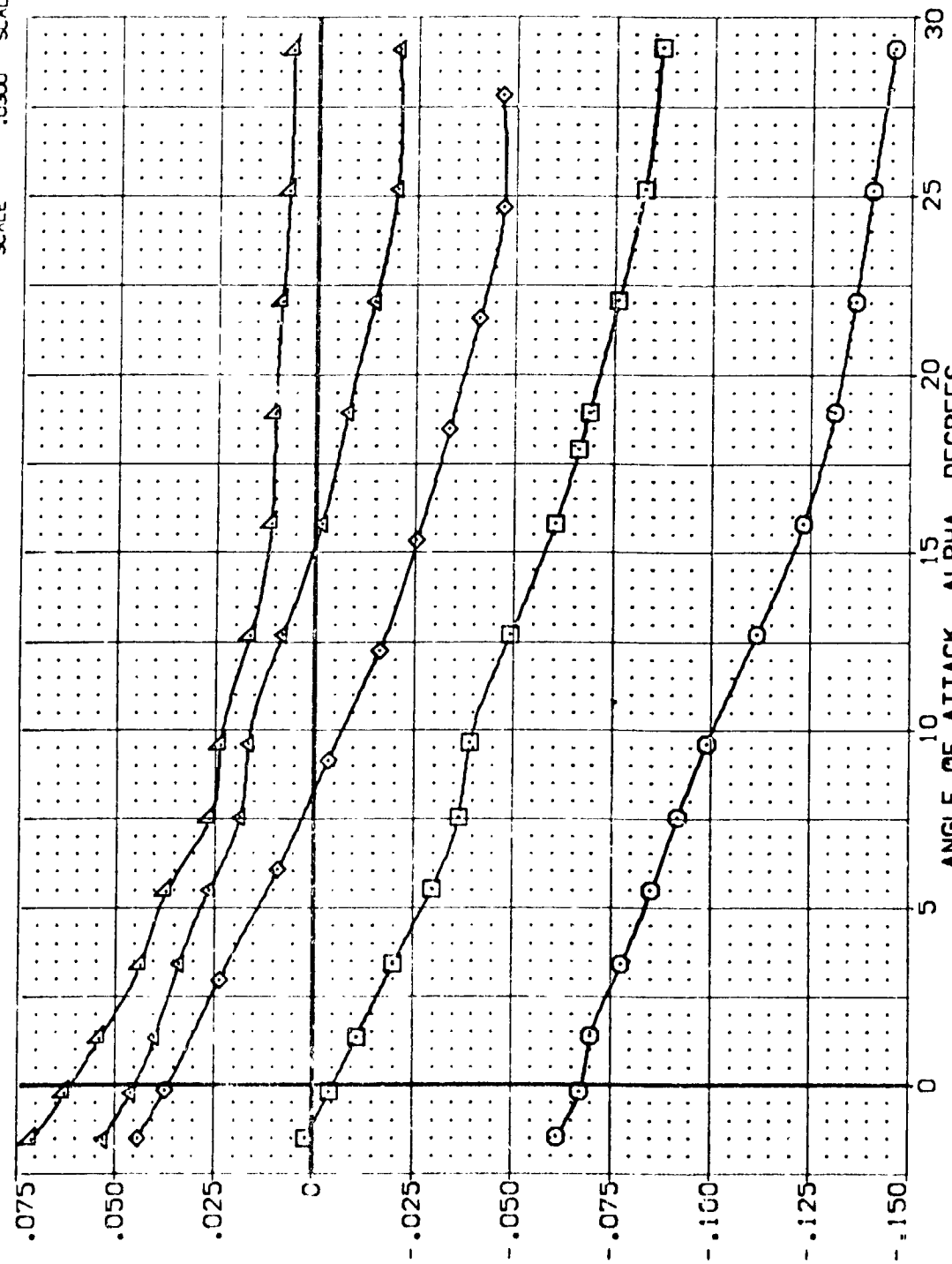


FIG. 46 ELEVON PANEL HINGEMENTS VERSUS ANGLE OF ATTACK

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BUFLAP	SPDBRK	REFERENCE INFORMATION
{VEK003}	ARC 97-747 0A538 B C M F V	15.000	.000	-11.700	55.000	SREF 2.4210
{VEK011}	ARC 97-747 0A538 B C M F V	.000	.000	-11.700	55.000	LREF 14.2440
{VEK002}	ARC 97-747 0A538 B C M F V	-10.000	.000	-11.700	55.000	BREF 28.1004
{VEK019}	ARC 97-747 0A538 B C M F V	-20.000	.000	-11.700	55.000	XMRP 32.3013
{VEK023}	ARC 97-747 0A538 B C M F V	-20.000	.000	-11.700	55.000	ZMRP .0000
						SCALE 11.2500
						N. 50.000
						N. 11.000
						N. 11.000
						N. 11.000
						N. 11.000

OUTBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, C_H

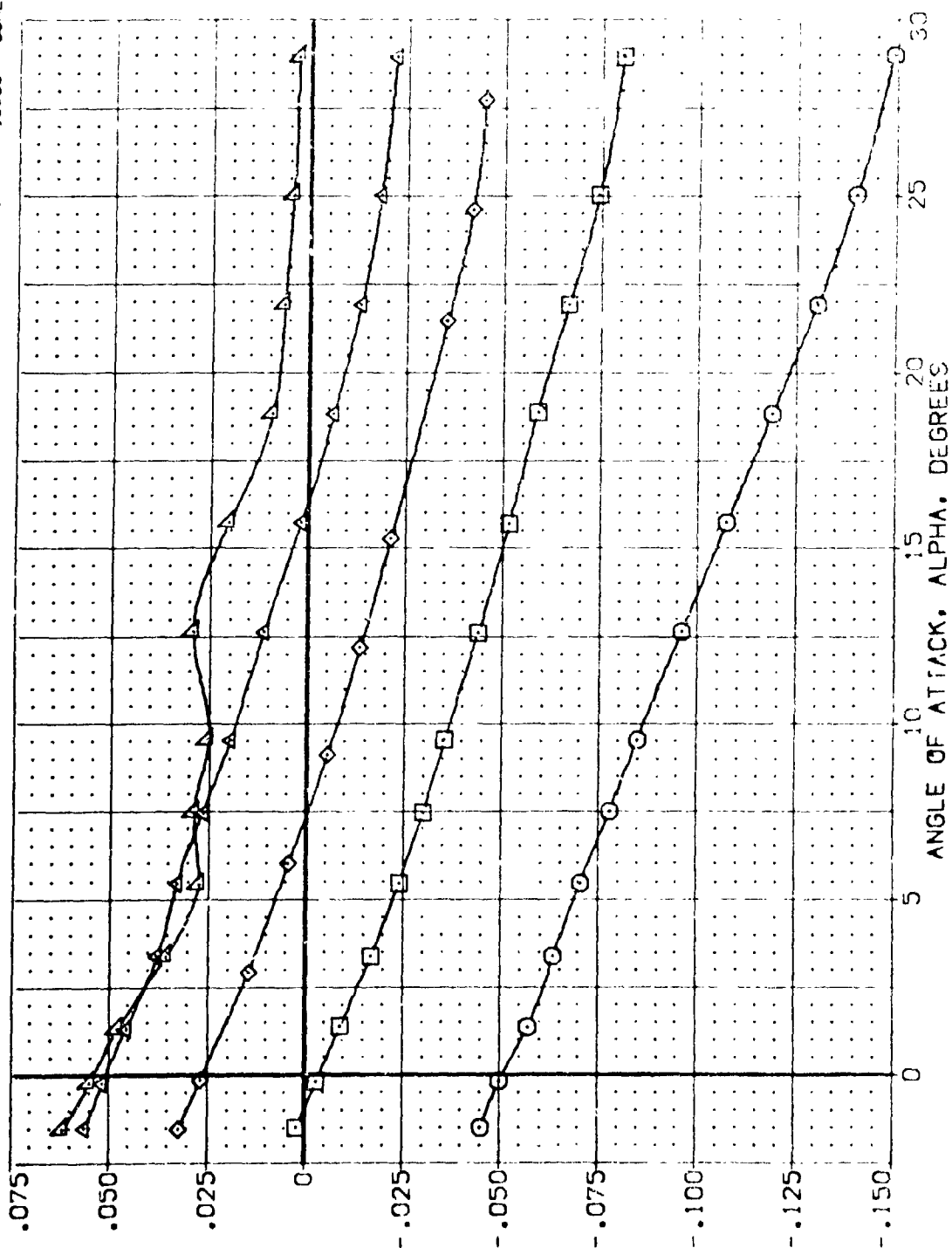


FIG. 46 ELEVON PANEL HINGEMENTS VERSUS ANGLE OF ATTACK

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOF LAP	SPEED	REFERENCE INFORMATION
14275	APC 97-747 21538 B C M F V	0.00	0.00	0.700	25.000	2.4210 SCALE
14276	APC 97-747 21538 B C M F V	10.000	0.00	0.700	25.000	14.2440 SCALE
14277	APC 97-747 21538 B C M F V	20.000	0.00	0.700	25.000	28.1004 SCALE
						32.3000 SCALE
						11.2000 SCALE
						12.3000 SCALE

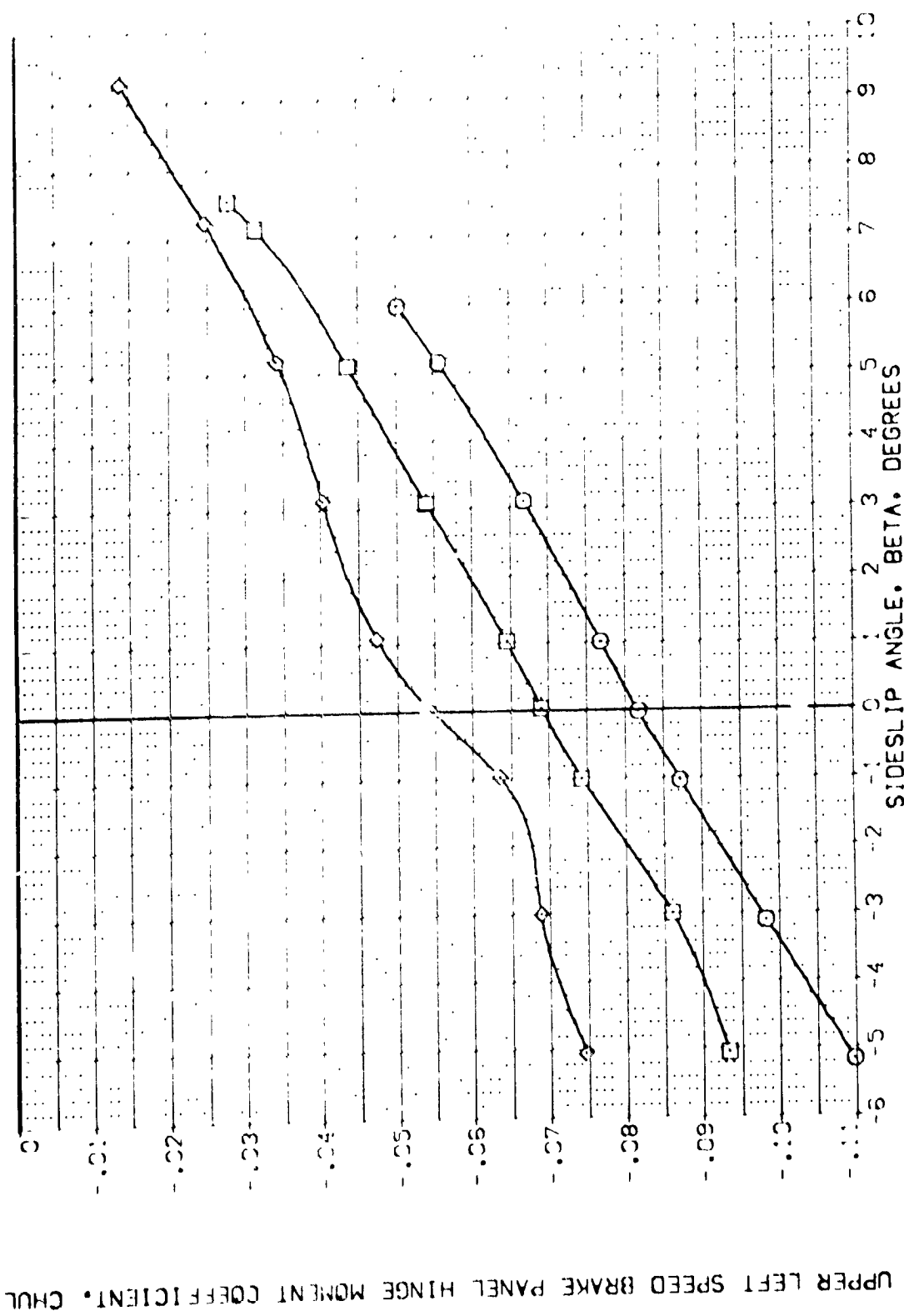


FIG. 47 RUDDER PANEL HINGEMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.
(A) MAC = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOG LAP	SPEED	REFERENCE	UPPER LEFT
[YEC025]	ARC 97-747 0A538 B C M F V	10.000	.000	-11.700	25.000	2.4210	SCALE
[YEC026]	ARC 97-747 0A538 B C M F V	10.000	.000	-11.700	25.000	14.2440	SCALE
[YEC027]	ARC 97-747 0A538 B C M F V	20.000	.000	-11.700	25.000	32.1000	SCALE
						1000	SCALE
						2000	SCALE
						4000	SCALE
						8000	SCALE
						16000	SCALE
						32000	SCALE
						64000	SCALE
						128000	SCALE
						256000	SCALE

UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUL

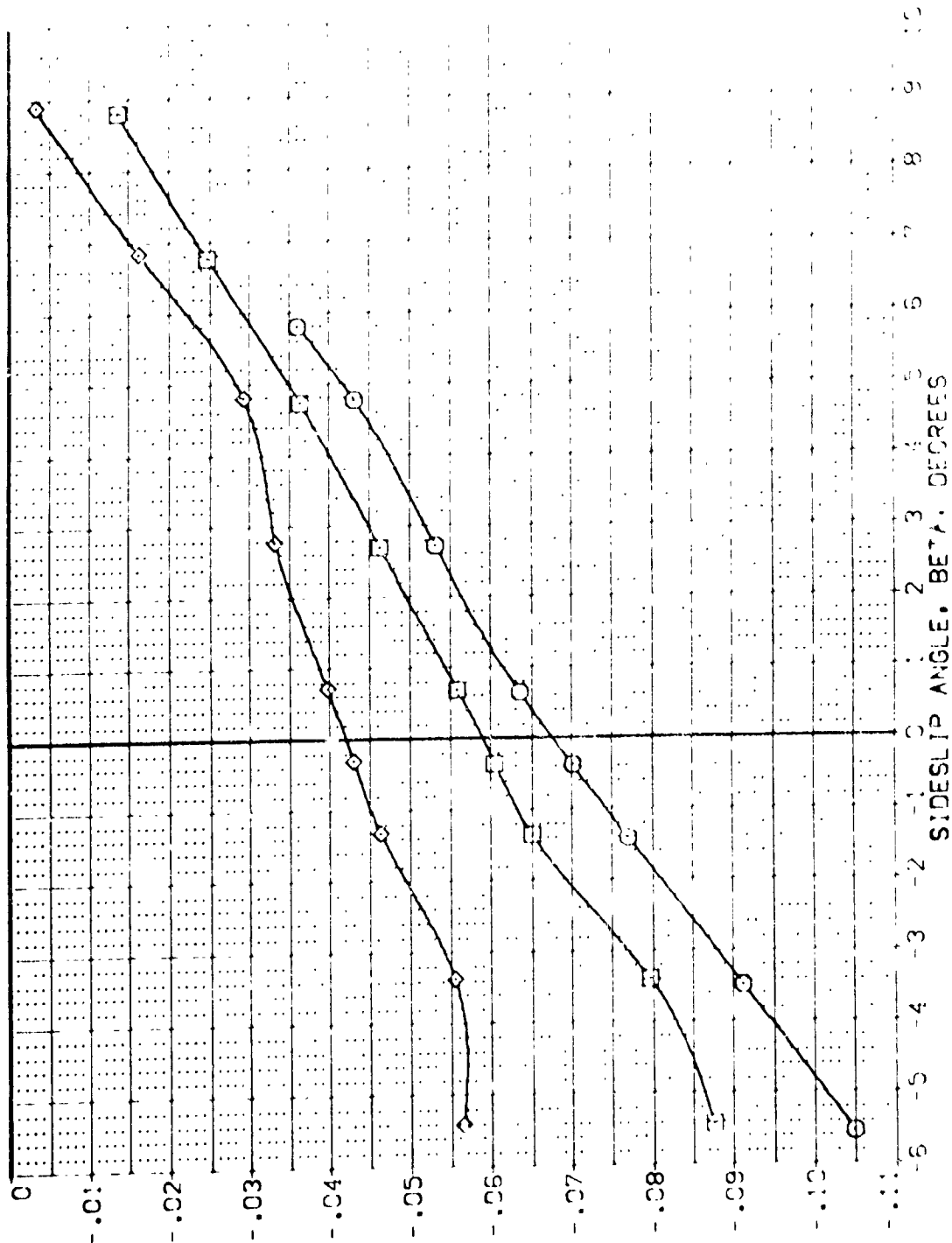


FIG. 47 RUDDER PANEL HINGEMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25.000.
(B)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VEP075) Q ARC 97-747 C4538 B C M F V I
 (VEP076) Q ARC 97-747 C4538 B C M F V I
 (VEP077) Q ARC 97-747 C4538 B C M F V I

NO. RNUL
 NO. RNUL
 NO. RNUL

ALPHA
 .000
 .000
 .000

RUDDER
 .000
 .000
 .000

BOFLAP
 .000
 .000
 .000

SPOBRN
 .000
 .000
 .000

SPREF
 .000
 .000
 .000

REF REFERENCE INFORMATION
 2.4210
 14.2440
 28.1004
 32.3010
 11.2500
 .0800

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

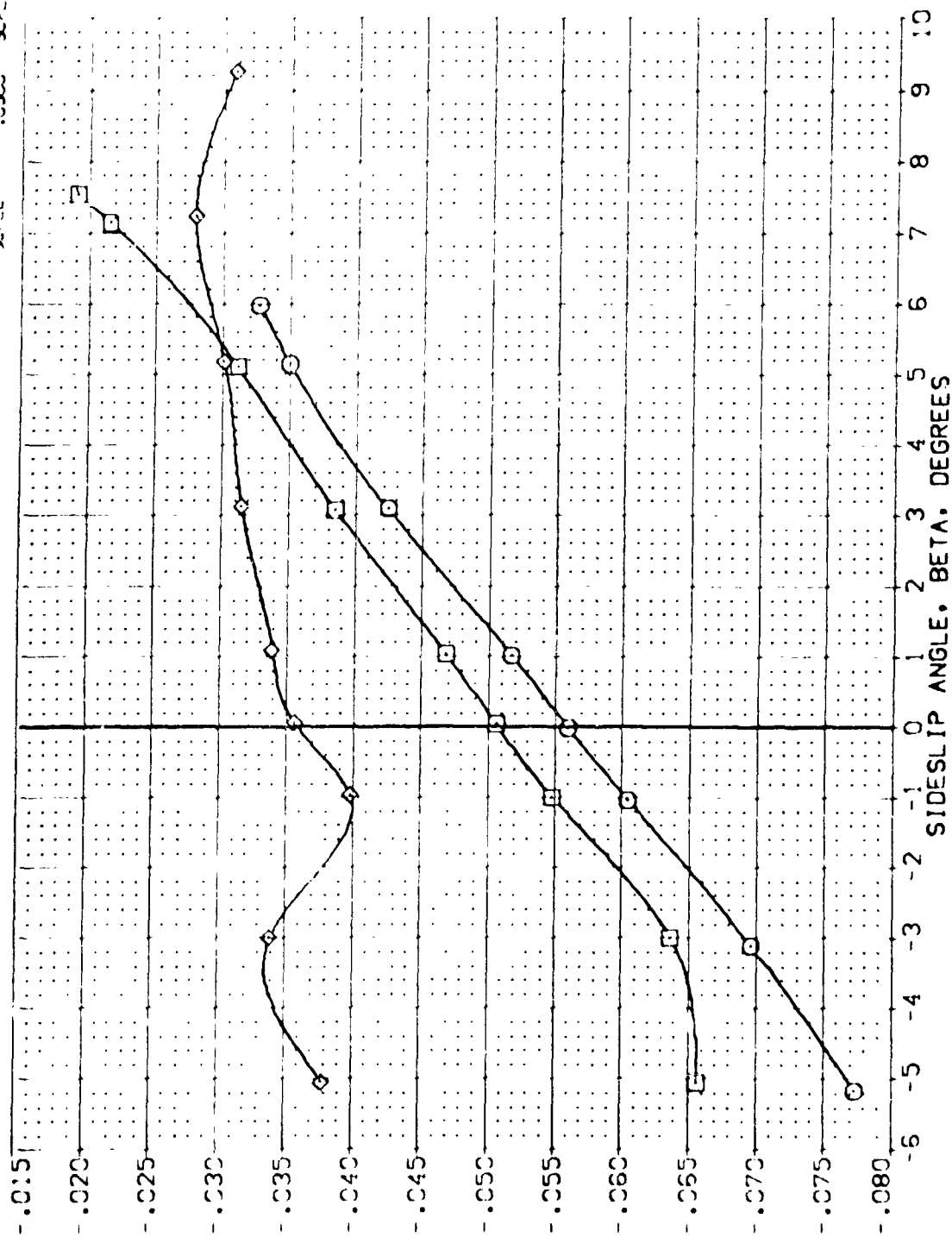


FIG. 47 RUDDER PANEL HINGEMOMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.
 (MACH = 1.60) PAGE 493

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 1 100 90-747 24538 B C F F V 1 100 100
 2 100 90-747 24538 B C F F V 1 100 100
 3 100 90-747 24538 B C F F V 1 100 100

ALPHA RUDDER BOE AP SPEED SCALE
 100 100 100 100 100 100
 100 100 100 100 100 100
 200 100 100 100 100 100

REFERENCE INFORMATION
 24215 50.0
 42445 50.0
 28100 50.0
 37300 50.0
 1000 50.0
 7000 50.0
 10000 50.0

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

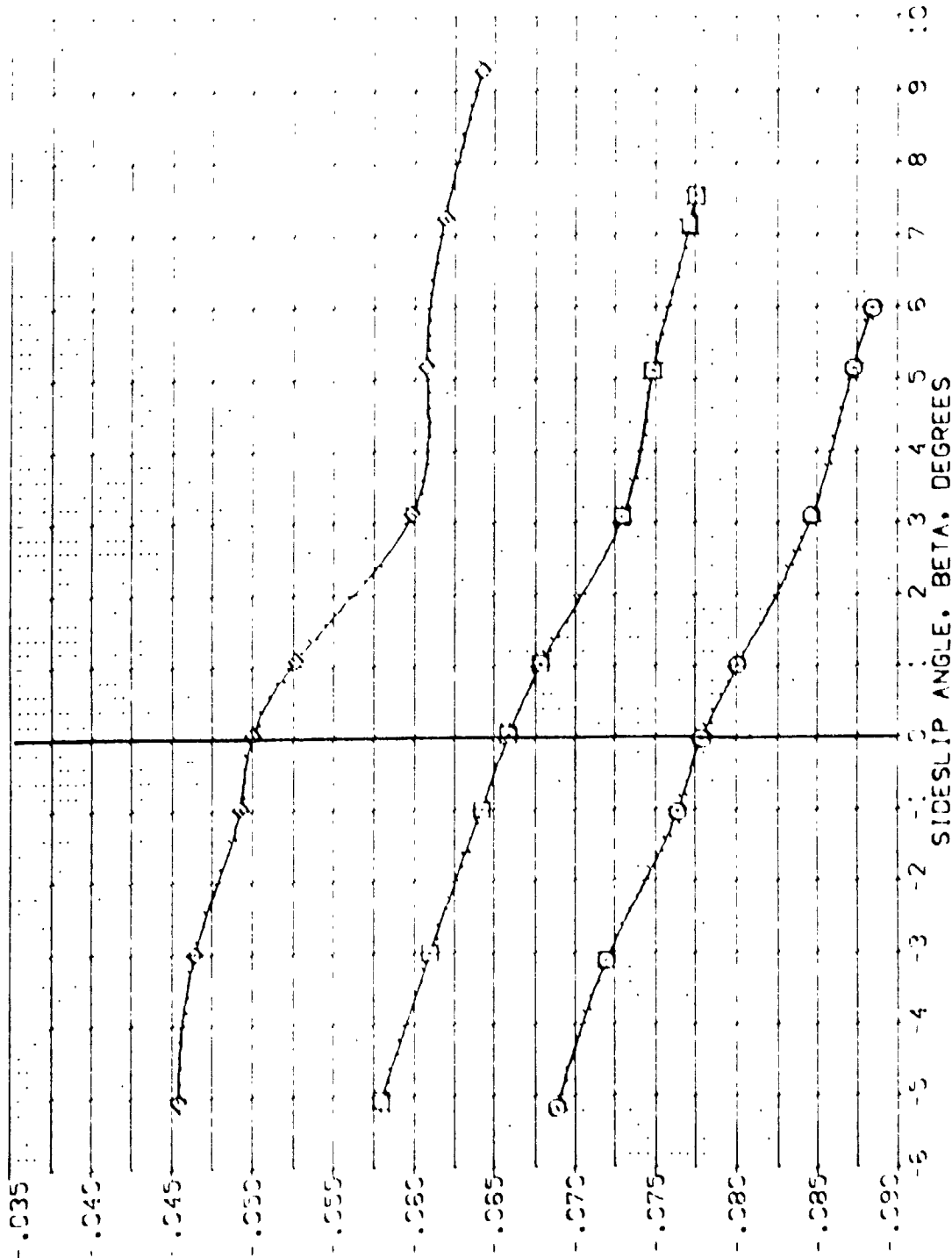


FIG. 47 RUDDER PANEL HINGEMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.

(ADWACH = 1.60)

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	REFERENCE INFORMATION
[YK025]	ARC 97-747 D4538 B C H F V I V	SREF 2.4210
[YK026]	ARC 97-747 D4538 B C H F V I V	LREF 14.2440
[YK027]	ARC 97-747 D4538 B C H F V I V	BREF 28.1004
		XREF 32.3010
		YREF 11.0000
		ZREF 11.2500
		SCALE 1.0000

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

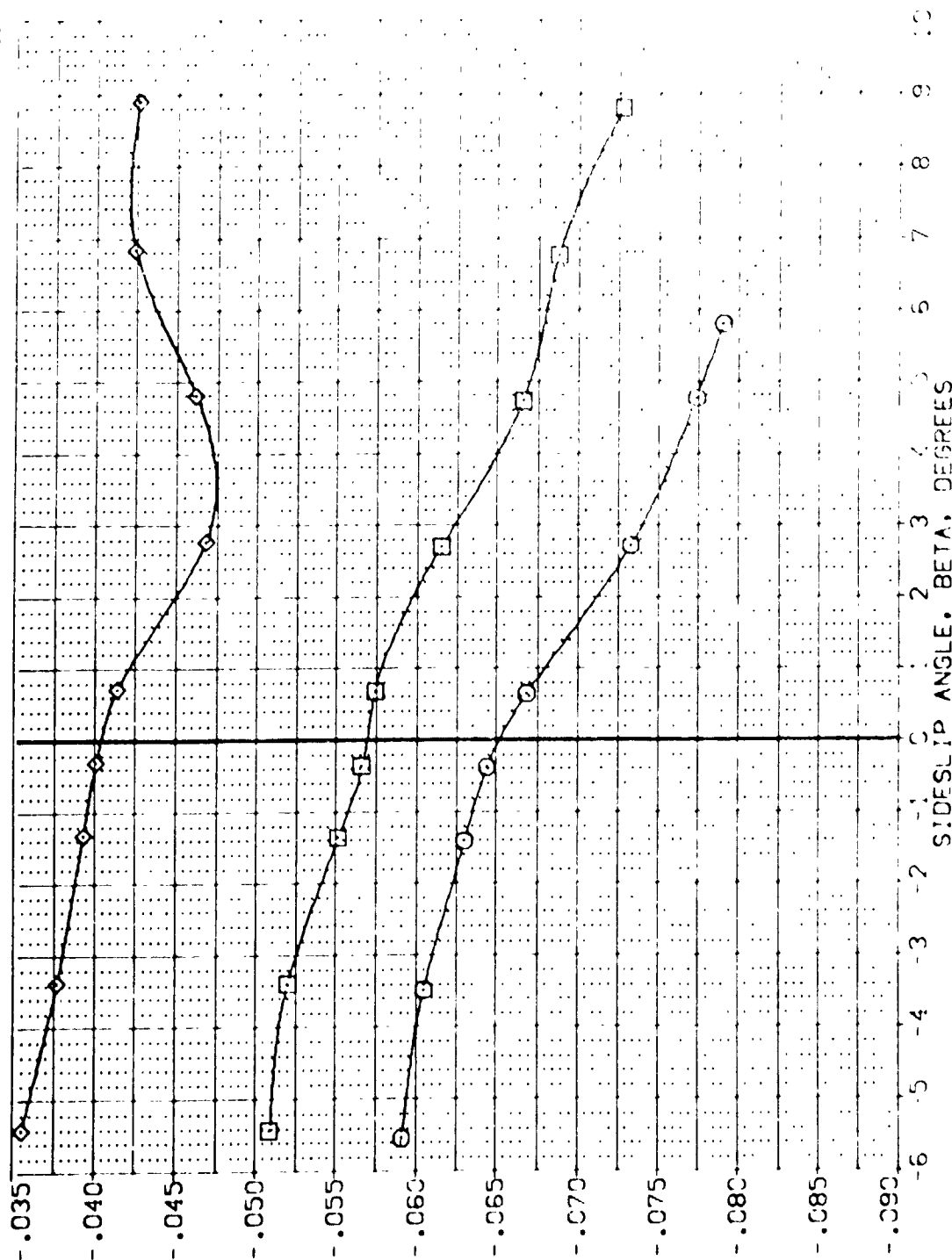


FIG. 47 RUDDER PANEL HINGEMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.

(B)MAC = 2.00

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPODBRK	REFERENCE INFORMATION
(VER075)	□	APC 97-747	CAS38 B C M F V	10.000	.000	-11.700	25.000	SPEED 2.4210 SQ. FT.
(VER076)	□	APC 97-747	CAS38 B C M F V	.000	.000	-11.700	25.000	REF 14.2440
(VER077)	□	APC 97-747	CAS38 B C M F V	20.000	.000	-11.700	25.000	REF 28.1004
								REF 32.3010
								REF 11.2500
								SCALE 1.0000

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLR

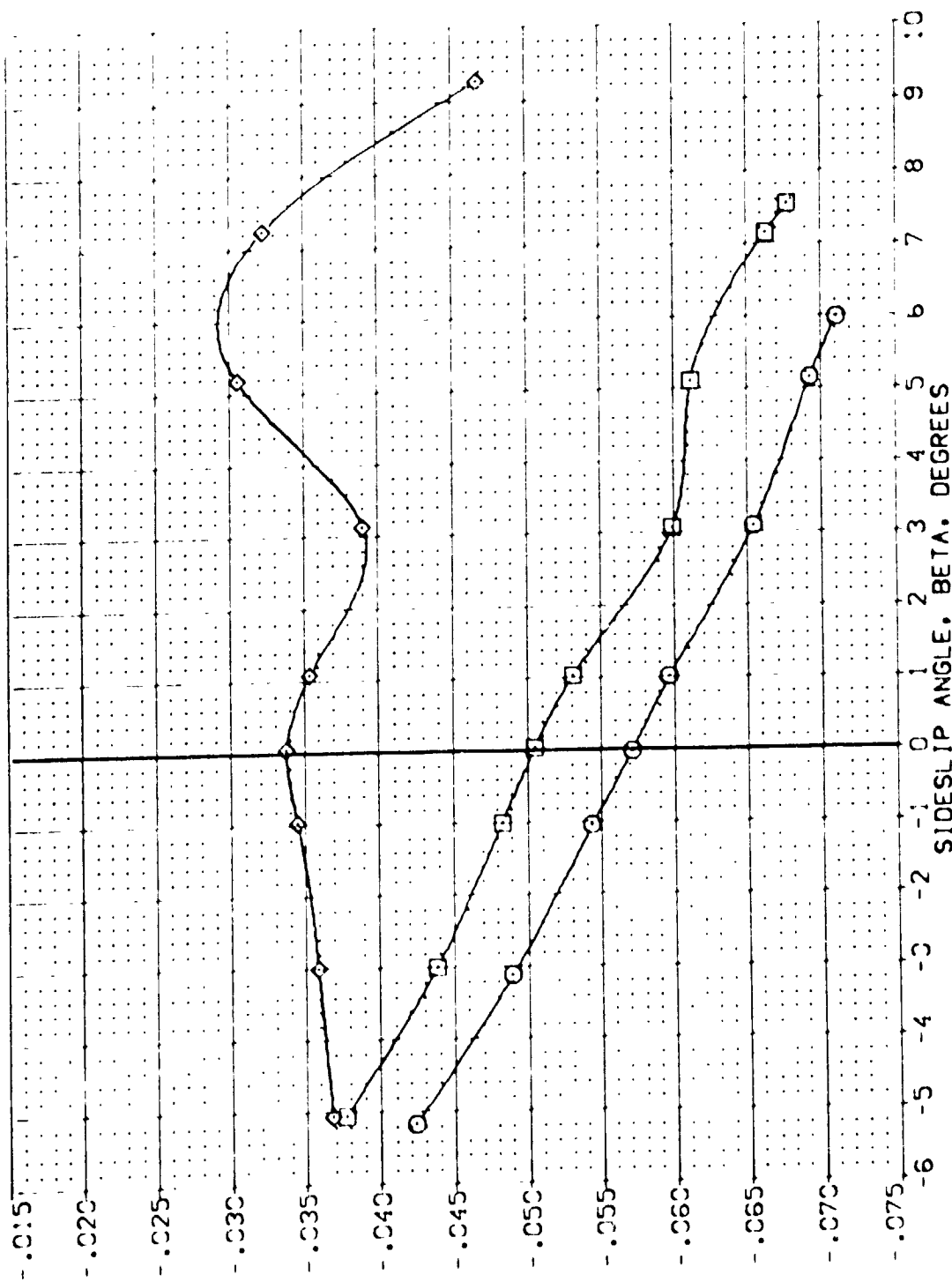


FIG. 47 RUDDER PANEL HINGEMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.

(A)MAC = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VER025) ARC 97-747 OAS38 B C M F VI V
 (VER026) ARC 97-747 OAS38 B C M F VI V
 (VER027) ARC 97-747 OAS38 B C M F VI V

ALPHA RUDDER BOFLAP SPEEDRK
 .000 .000 .000 25.000
 10.000 .000 .000 25.000
 20.000 .000 .000 25.000

REFERENCE INFORMATION
 SREF 2.4210 50.0°
 LREF 14.2440 N
 BREF 28.1004 N
 XREF 32.3010 N
 YREF 11.2500 N
 ZREF 0.0000 N
 SCALE 0.0000

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CLRL

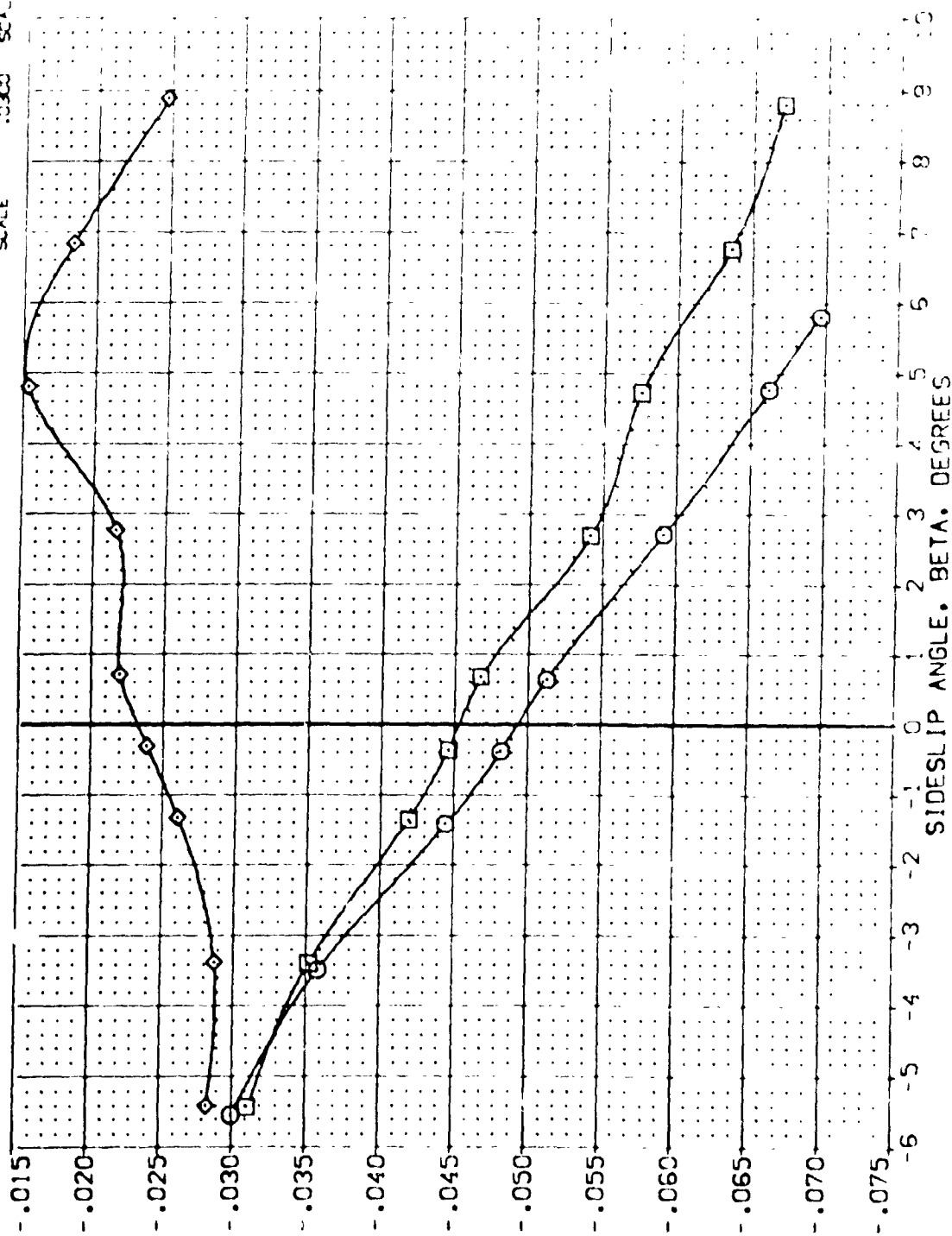


FIG. 47 RUDDER PANEL HINGEMOMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.
 (B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPODBRK	REFERENCE INFORMATION
(YER035)	ARC 97-747 0A538 B C H F V) V	0.000	-10.000	-11.700	25.000	SREF 2.4210
(YER036)	ARC 97-747 0A538 B C H F V) V	10.000	-10.000	-11.700	25.000	LREF 14.2440
(YER037)	ARC 97-747 0A538 B C H F V) V	20.000	-10.000	-11.700	25.000	BREF 28.1004
						XMRP 32.3010
						YMRP 0.0000
						ZMRP 11.2500
						SCALE .0300

UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUL

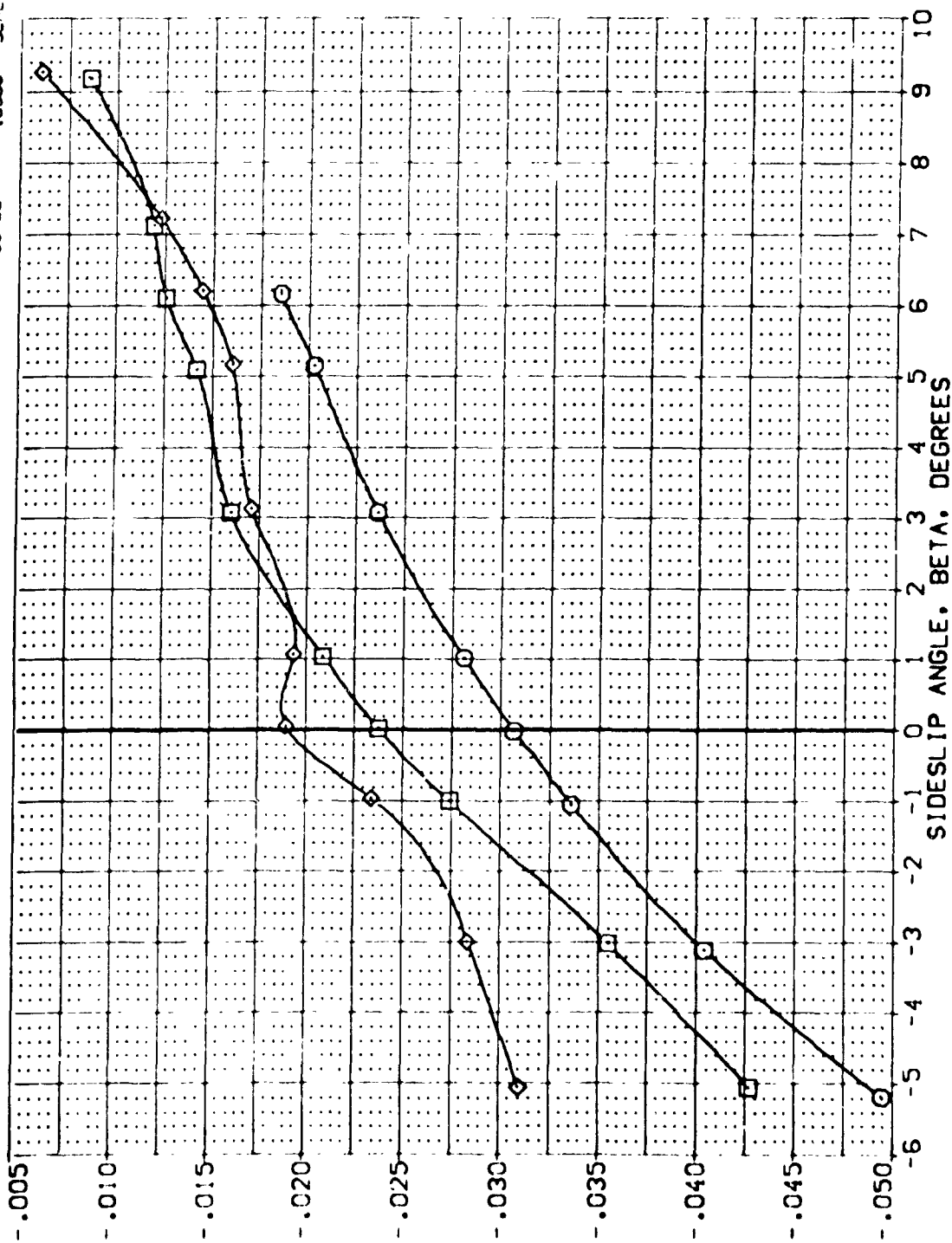


FIG. 47 RUDDER PANEL HINGEMOMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.

(A)MACH = 1.60

UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHU.



DATA SET 51-80L CONFIGURATION DESCRIPTION
 [VERQ35] [] ARC 97-747 OAS38 B C H F V I V NOM. RV/L
 [VERQ36] [] ARC 97-747 OAS38 B C H F V I V NOM. RV/L
 [VERQ37] [] ARC 97-747 OAS38 B C H F V I V NOM. RV/L

ALPHA RUDDER BDF LAP SPOBRK
 .000 -10.000 -11.700 75.000
 10.000 -10.000 -11.700 1.000
 20.000 -10.000 -11.700 25.000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LREF 14.2442
 BREF 28.1004
 YMRP 37.3010
 ZMRP .0000
 SCALE 11.2500
 SCALE 1.0300

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

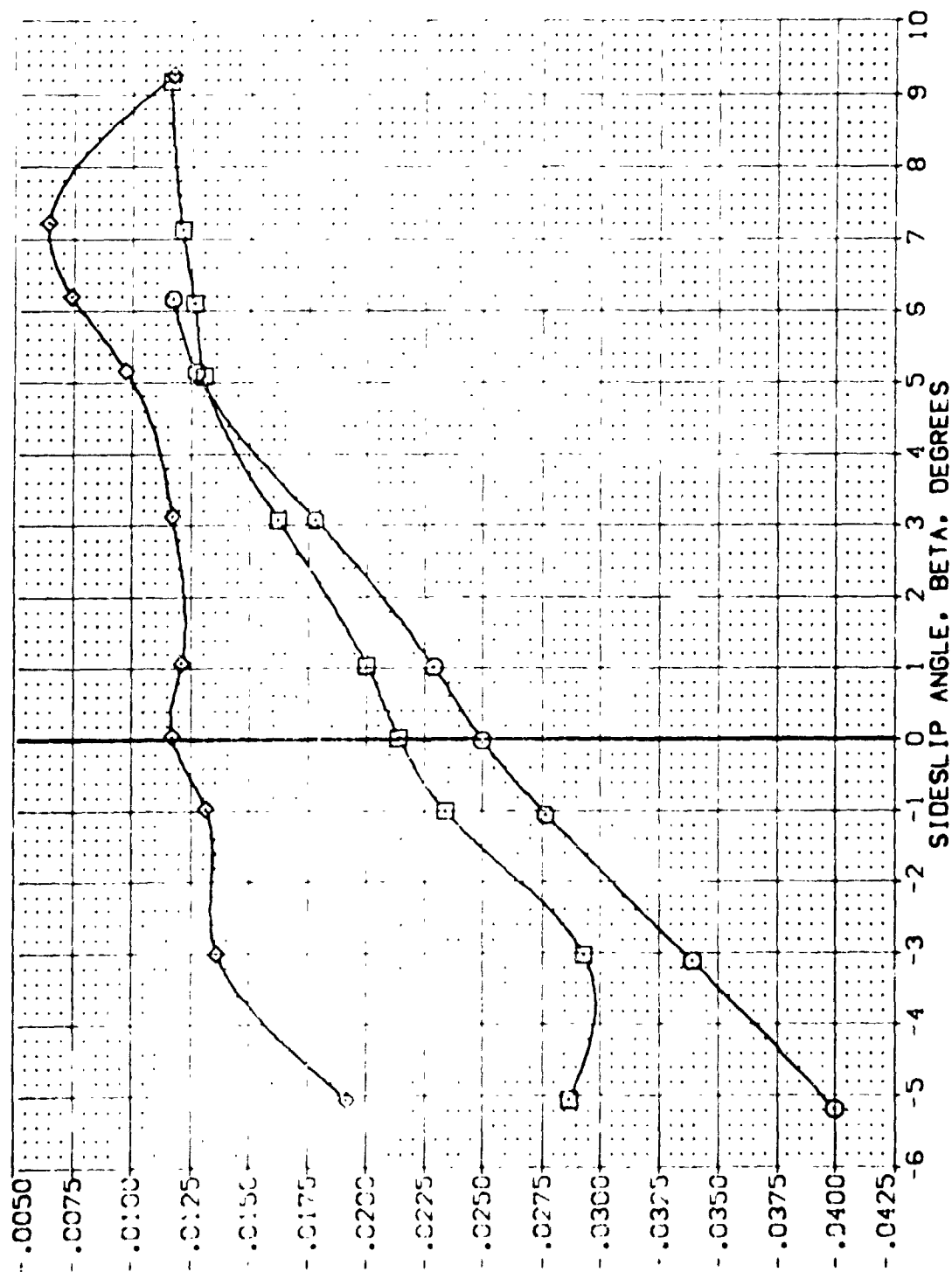


FIG. 47 RUDDER PANEL HINGEMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.
 (A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

VELOCITY	ARC	77-747	0A538	B	C	M	F	A	V	100%	RM/L	
(VE=0.25)	Q	ARC	77-747	0A538	B	C	M	F	A <td>V</td> <td>100%</td> <td>RM/L</td>	V	100%	RM/L
(VE=0.25)	Q	ARC	77-747	0A538	B	C	M	F	A <td>V</td> <td>100%</td> <td>RM/L</td>	V	100%	RM/L
(VE=0.25)	Q	ARC	77-747	0A538	B	C	M	F	A <td>V</td> <td>100%</td> <td>RM/L</td>	V	100%	RM/L

REFERENCE INFORMATION

SPREF	REF	SPREF	REF
14.4210	14.4210	50.000	50.000
14.7440	14.7440	50.000	50.000
28.1004	28.1004	50.000	50.000
32.3000	32.3000	50.000	50.000
11.2000	11.2000	50.000	50.000
10.5000	10.5000	50.000	50.000

LOWER LEFT SPLOD BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

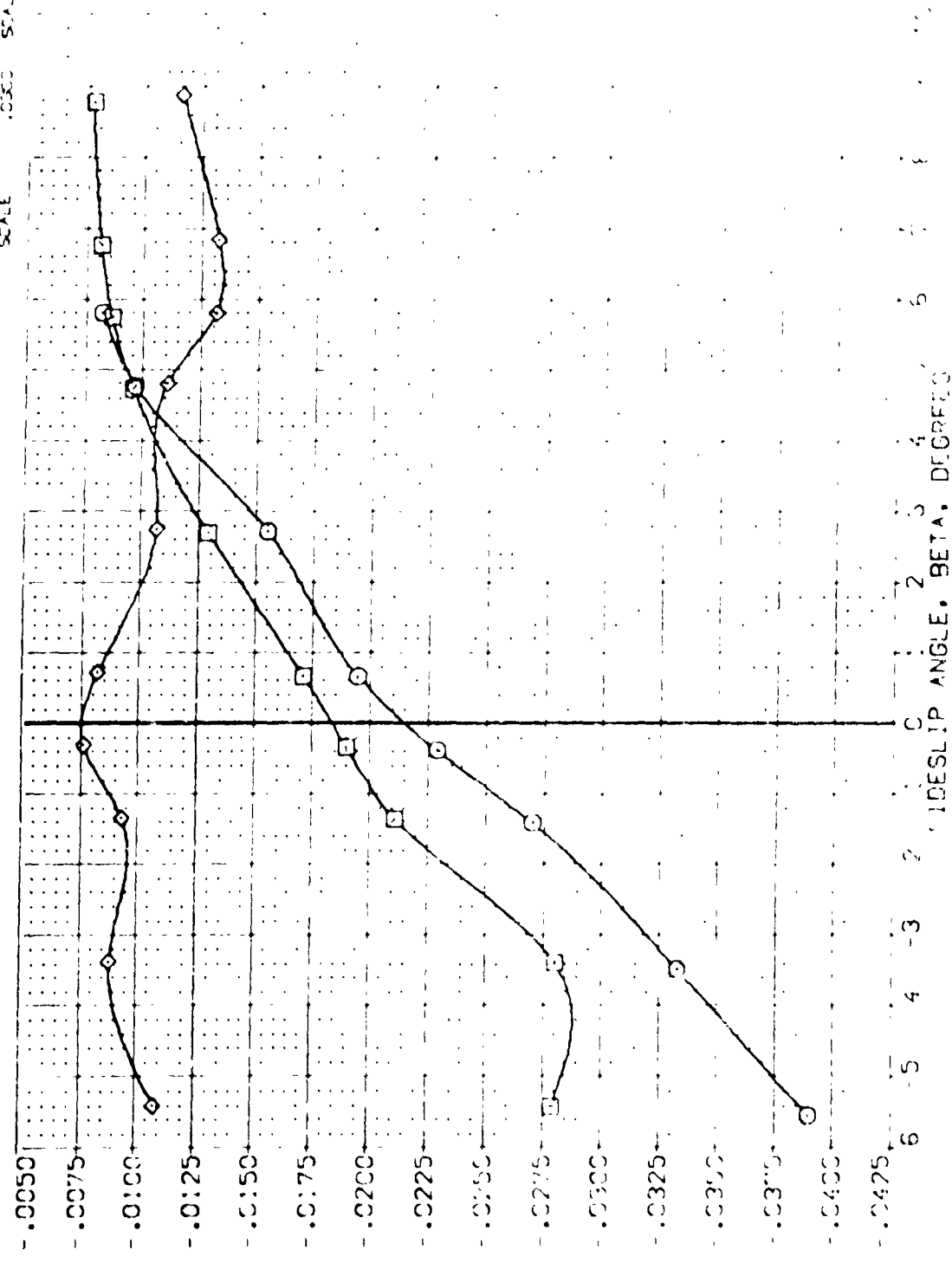


FIG. 47 RUDDER PANEL HINGEMENTS VERSUS ANGLE OF ATTACK, SPEEDBANK = 20 DEG
 (BANK) = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
(YK036)	ARC 97-747 OAS38 B C M F VI V	0.000	-10.000	-11.700	25.000	SREF 2.4210 SQ.FT.
(YK036)	ARC 97-747 OAS38 B C M F VI V	10.000	-10.000	-11.700	25.000	LREF 14.2410 IN.
(YK037)	ARC 97-747 OAS38 B C M F VI V	20.000	-10.000	-11.700	25.000	BREF 28.1004 IN.
						XMRP 32.3010 IN.
						YMRP .0000 IN.
						ZMRP 11.2500 IN.
						SCALE .0300

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

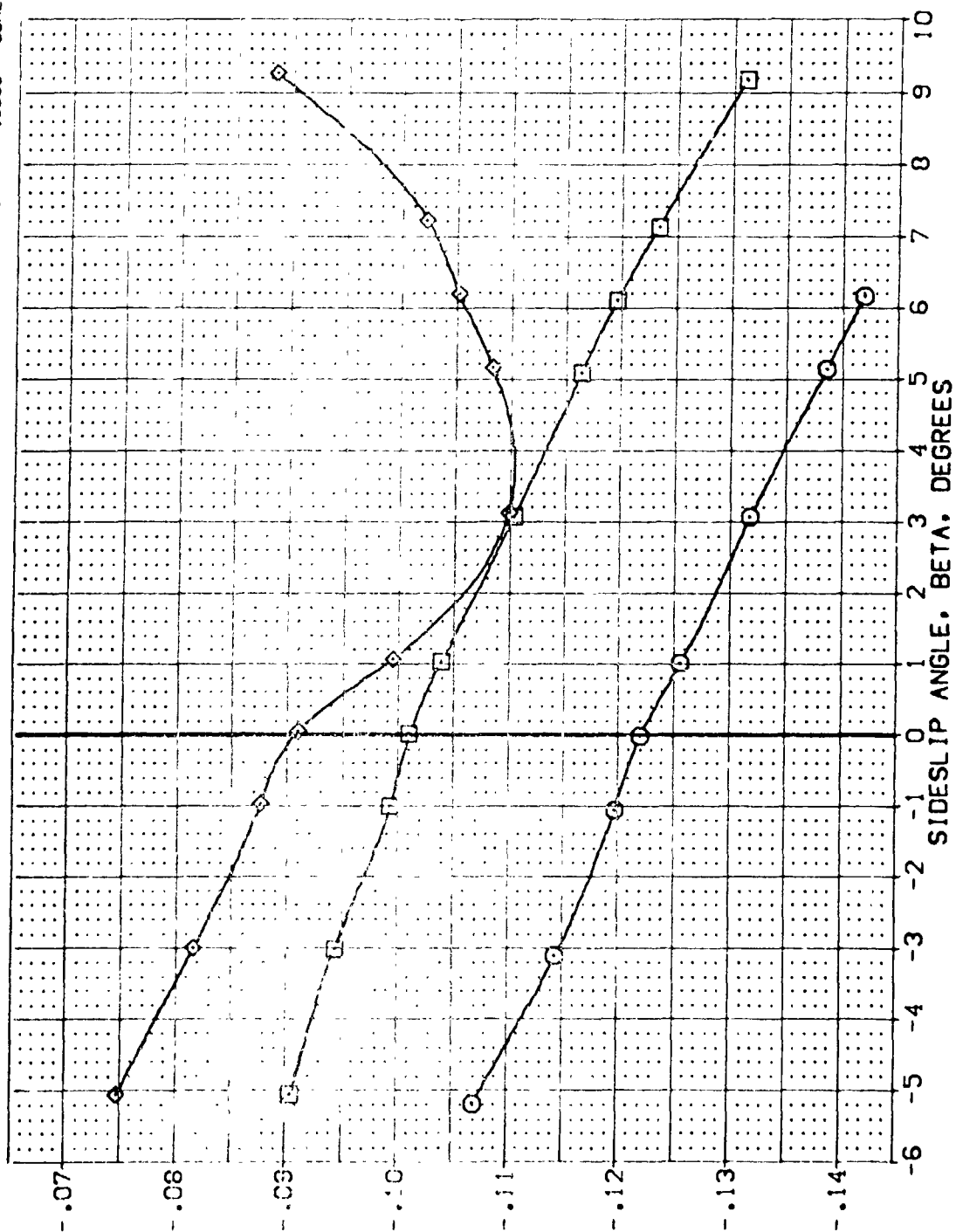


FIG. 47 RUDDER PANEL HINGEMOMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	ROFLAP	SPOBRK	SPREF	2.4710	50. FT.
[VEK035]	ARC 97-747 DAS38 B C M F V	10.000	-10.000	-11.700	25.000	LREF	14.2440	
[VEK036]	ARC 97-747 DAS38 B C M F V	20.000	-10.000	-11.700	25.000	BREF	28.1004	
[VEK037]	ARC 97-747 DAS38 B C M F V		-10.000	-11.700	25.000	YMRP	32.3010	
						ZMRP	11.2500	
						SCALE	.0300	

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

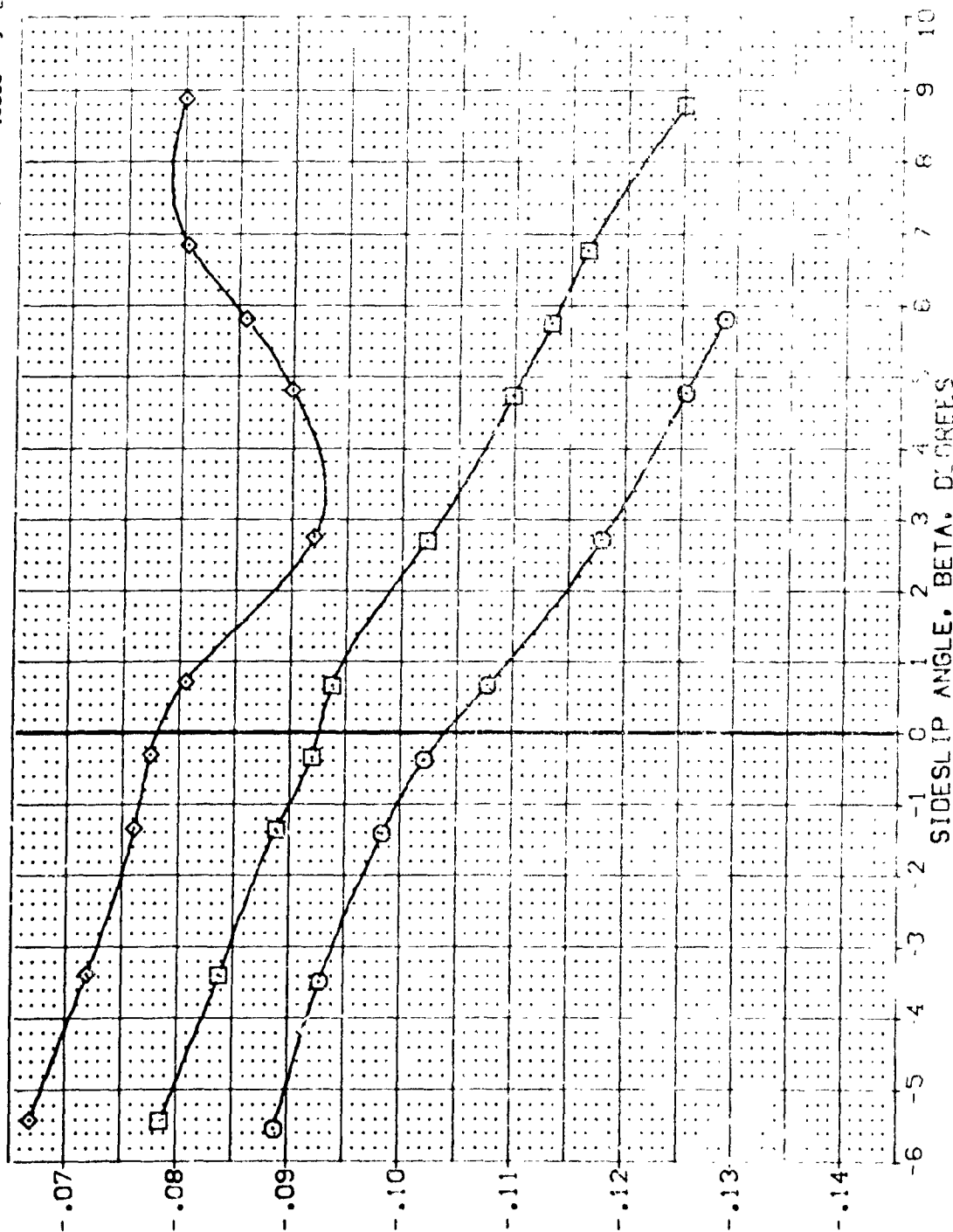


FIG. 47 RUDDER P. HINGEMOMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.
(5" NACH = 2.00)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON:	RV/L	ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
[YEQ35]	ARC 97-747 QAS38 B C H F V1	NON:	RV/L	.000	-10.000	-11.700	25.000	SREF 2.4210 SQ. FT.
[YEQ36]	ARC 97-747 QAS38 B C H F V1	NON:	RV/L	10.000	-10.000	-11.700	25.000	LREF 14.2440 N.
[YEQ37]	ARC 97-747 QAS38 B C H F V1	NON:	RV/L	20.000	-10.000	-11.700	25.000	BREF 28.1004 N.
								XMREF 32.3010 N.
								YMREF .0000 N.
								ZMREF 11.2500 N.
								SCALE .0300 SCALE

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLR

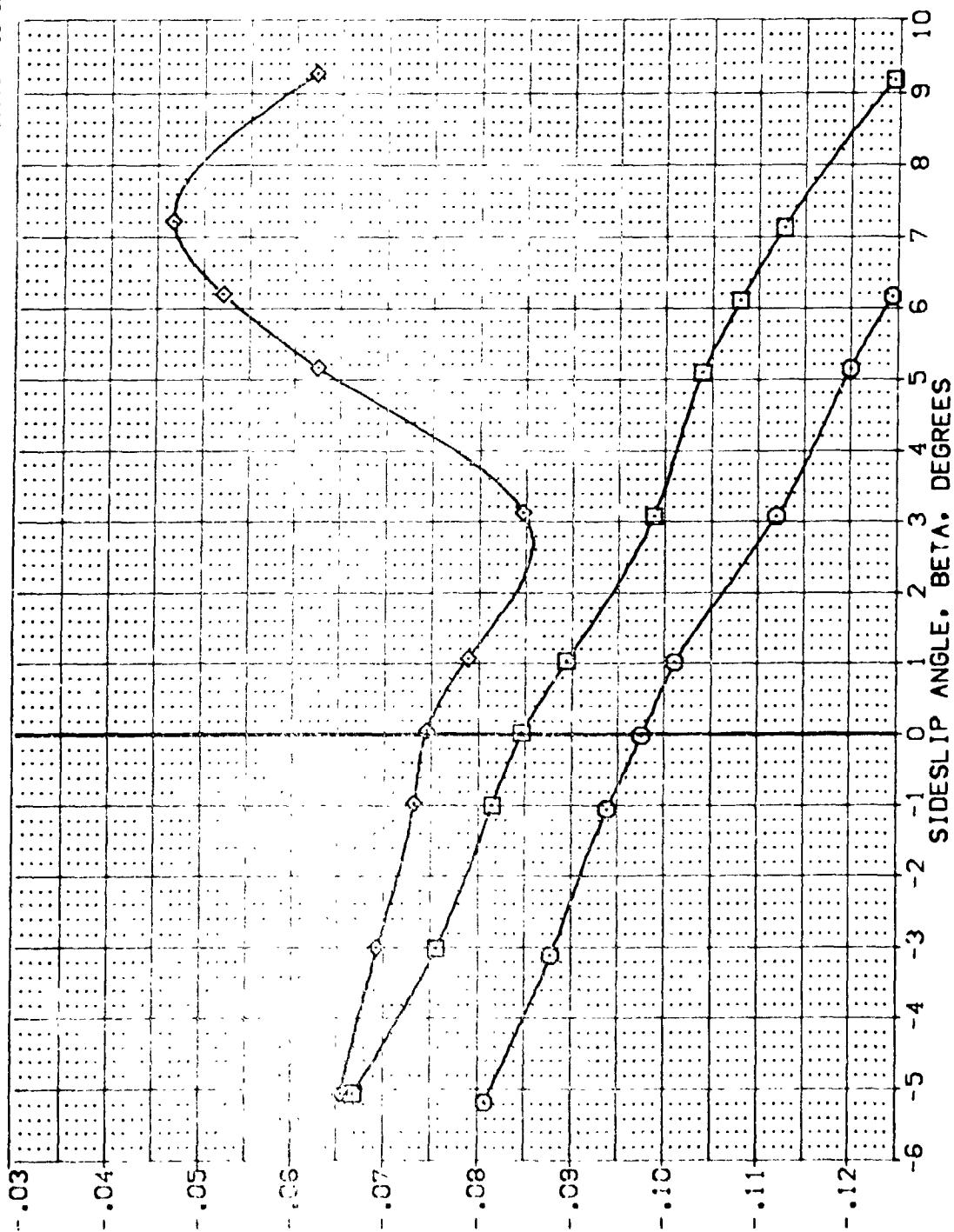


FIG. 47 RUDDER PANEL HINGEMOMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.

(M)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
[YEQ035]	ARC 97-747 0A538 B C H F V1	0.000	-10.000	-11.700	25.000	SREF 2.4210
[YEQ036]	ARC 97-747 0A538 B C H F V1	10.000	-10.000	-11.700	25.000	LREF 14.2440
[YEQ037]	ARC 97-747 0A538 B C H F V1	20.000	-10.000	-11.700	25.000	BREF 28.1004
						XMRP 32.3010
						YMRP .0000
						ZMRP .0000
						SCALE 11.2500
						SCALE .0300

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLR

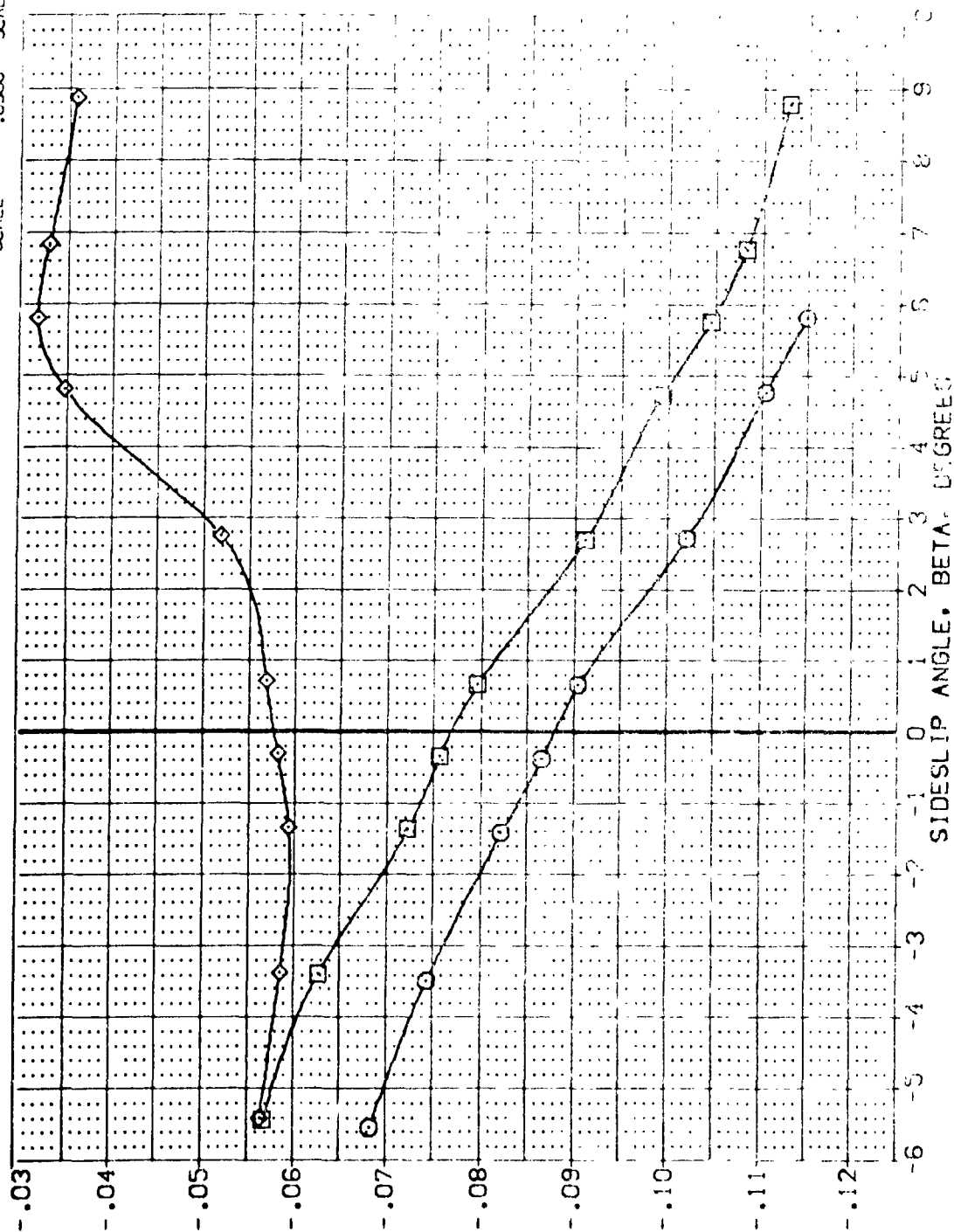


FIG. 47 RUDDER PANEL HINGEMOMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.
(B)MACH = 2.00

SYMBOL
 ○ □ ◇

ALPHA
 .000
 10.000
 20.000

PARAMETRIC VALUES
 MACH 1.600
 ELEVON .000
 BOFLAP -11.700
 ELEV-L .000

BETA .000
 ALLRON .000
 SPOBRK 55.000
 ELEV-R .000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LREF 14.2440 N.
 BREF 28.1004 N.
 XMRP 32.3010 N.
 YMRP .0000 N.
 ZMRP 11.2500 N.
 SCALE .0300

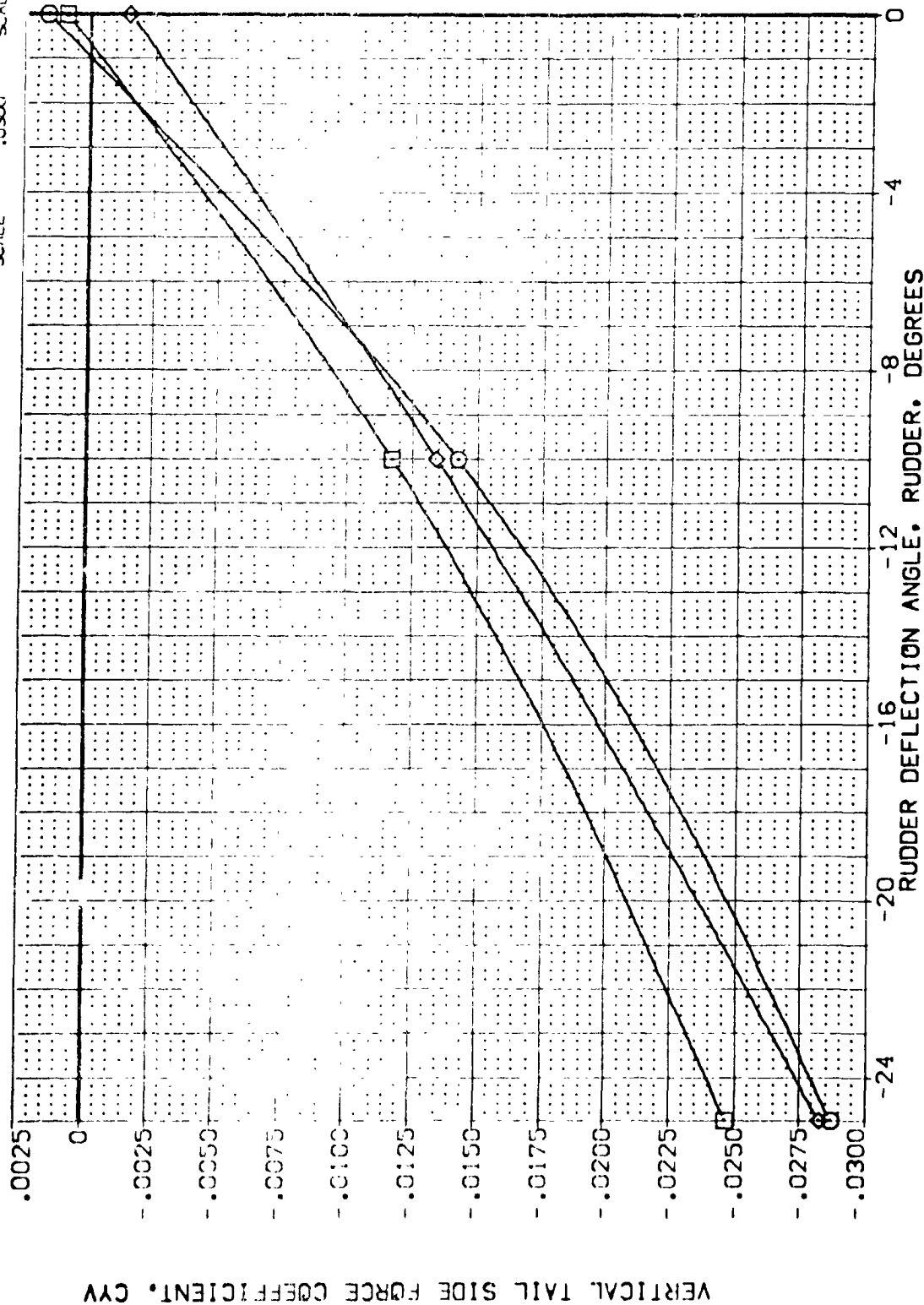


FIG. 48 EFFECT OF RUDDER DEFLECTION ON VERTICAL TAIL, SPEEDBRAKE = 55 DEGREES

ARC 97-747 0A53B B C M F W1 V NOM. RN/L

(DEK032)

SYMBOL
○ □ ◇

ALPHA
.000
10.000
20.000

PARAMETRIC VALUES
MACH 2.000
ELEVON .000
BOFLAP -11.700
ELEV-L .000

BETA .000
AILRON .000
SPOBRK 55.000
ELEV-R .000

REFERENCE INFORMATION
SPREF 2.4210
LRREF 14.2440
BRREF 28.1004
XMRP 32.3010
YMRP .0000
ZMRP 11.2500
SCALE .0300

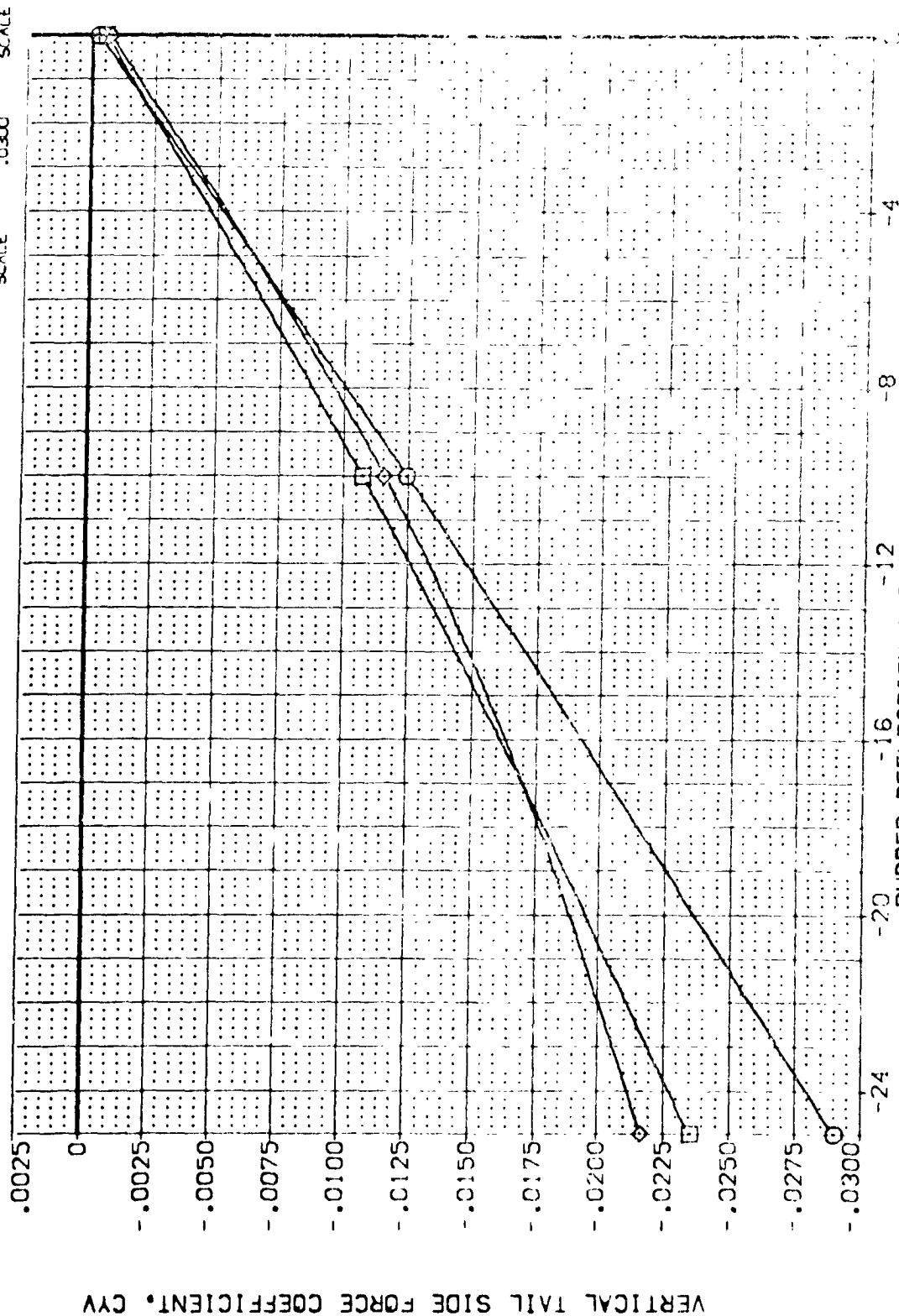


FIG. 48 EFFECT OF RUDDER DEFLECTION ON VERTICAL TAIL, SPEEDBRAKE = 55 DEGREES

ARC 97-747 0A53B B C M F W1 V NOM. RN/L

(DEK032)

SYMBOL
 ○ □ ◇

PARAMETRIC VALUES
 ALPHA .000 MACH 1.600 BETA .000
 10.000 ELEVON .000 AILRON .000
 20.000 BOFLAP -11.700 SPEEDK 55.000
 ELEV-L .000 ELEV-R .000

REFERENCE INFORMATION
 SPREF 2.4210 SQ.FT.
 LBREF 14.2440
 BRREF 28.1004
 XMRP 32.3010
 YMRP .0000
 ZMRP 11.2500
 SCALE .0300

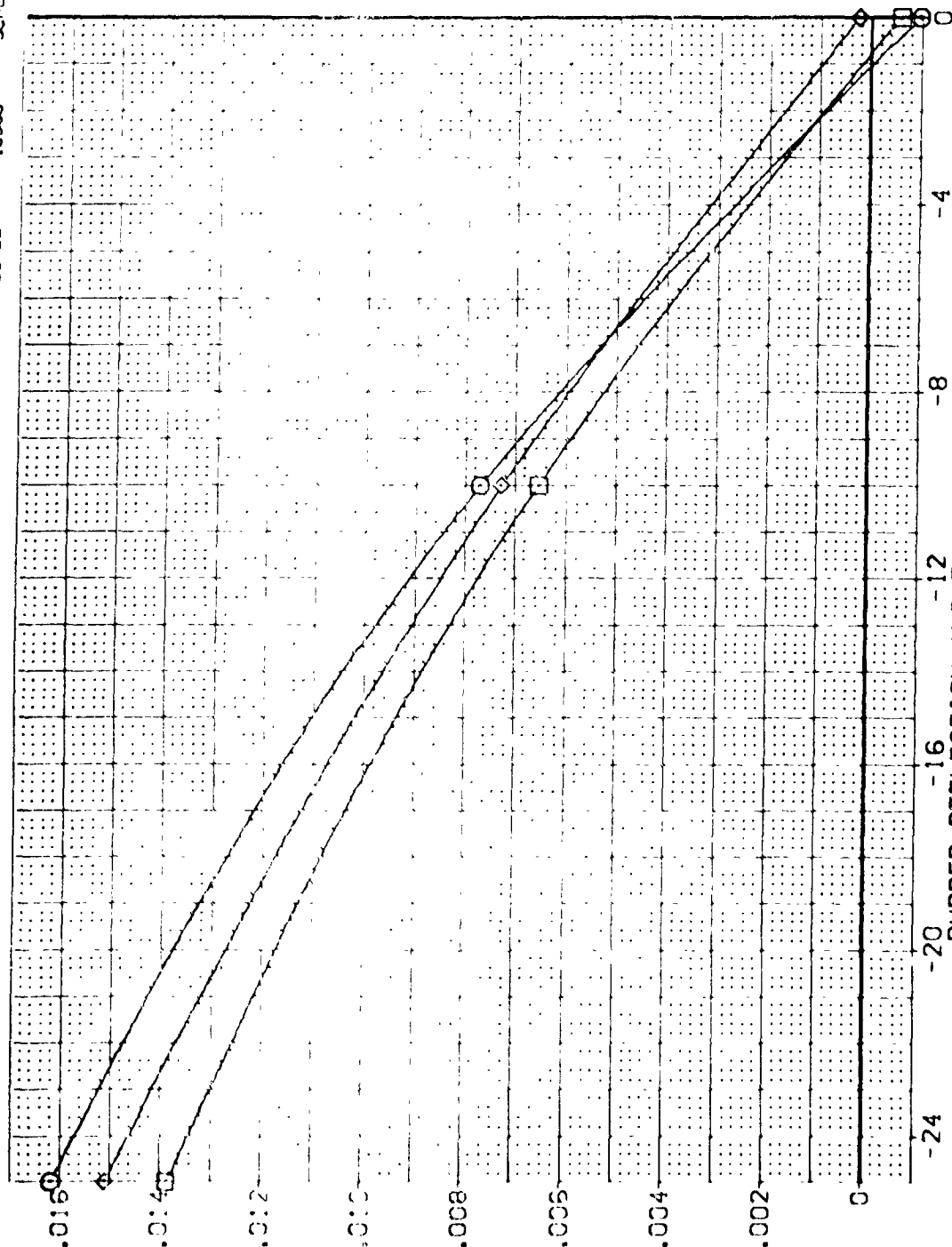


FIG. 48 EFFECT OF RUDDER DEFLECTION ON VERTICAL TAIL, SPEEDBRAKE = 55 DEGREES

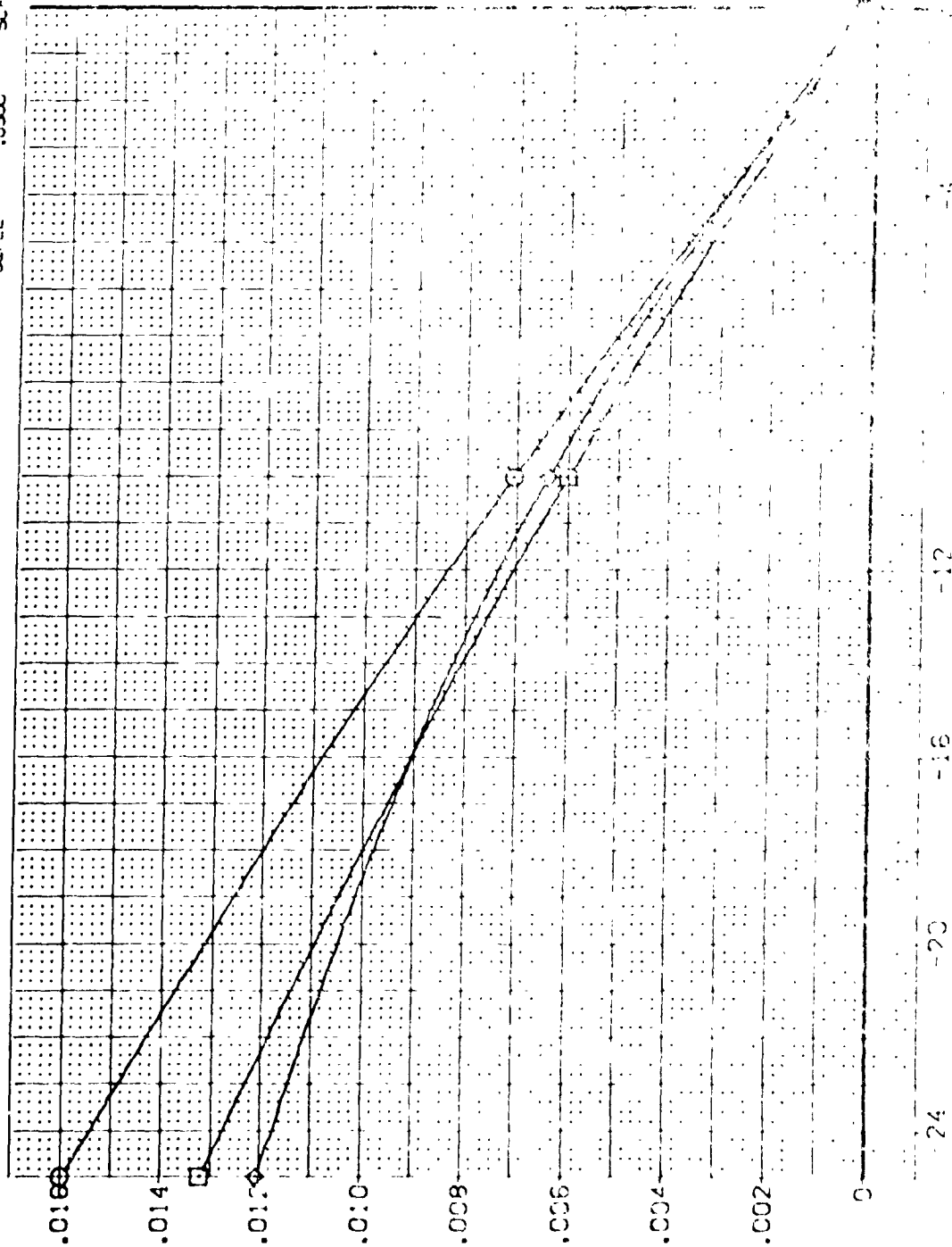


FIG. 48 EFFECT OF RUDDER DEFLECTION ON VERTICAL TAIL, SPEEDBRAKE = 55 DEGREES

ARC 97-747 0A538 B C M F W1 V NOM. RN/L

(EEK032)

SYMBOL

ALPHA

PARAMETRIC VALUES

.000
10.000
20.000

MACH
ELEVON
BOFLAP
ELEV-L

2.000
.000
-11.700
.000

BETA
AILRON
SPEEDRK
ELEV-R

.000
.000
55.000
.000

REFERENCE INFORMATION
SREF 2.4210 SQ. FT.
LREF 14.2440
BREF 28.1004
XMRP 32.3013
YMRP .0000
ZMRP 11.2500
SCALE .0300

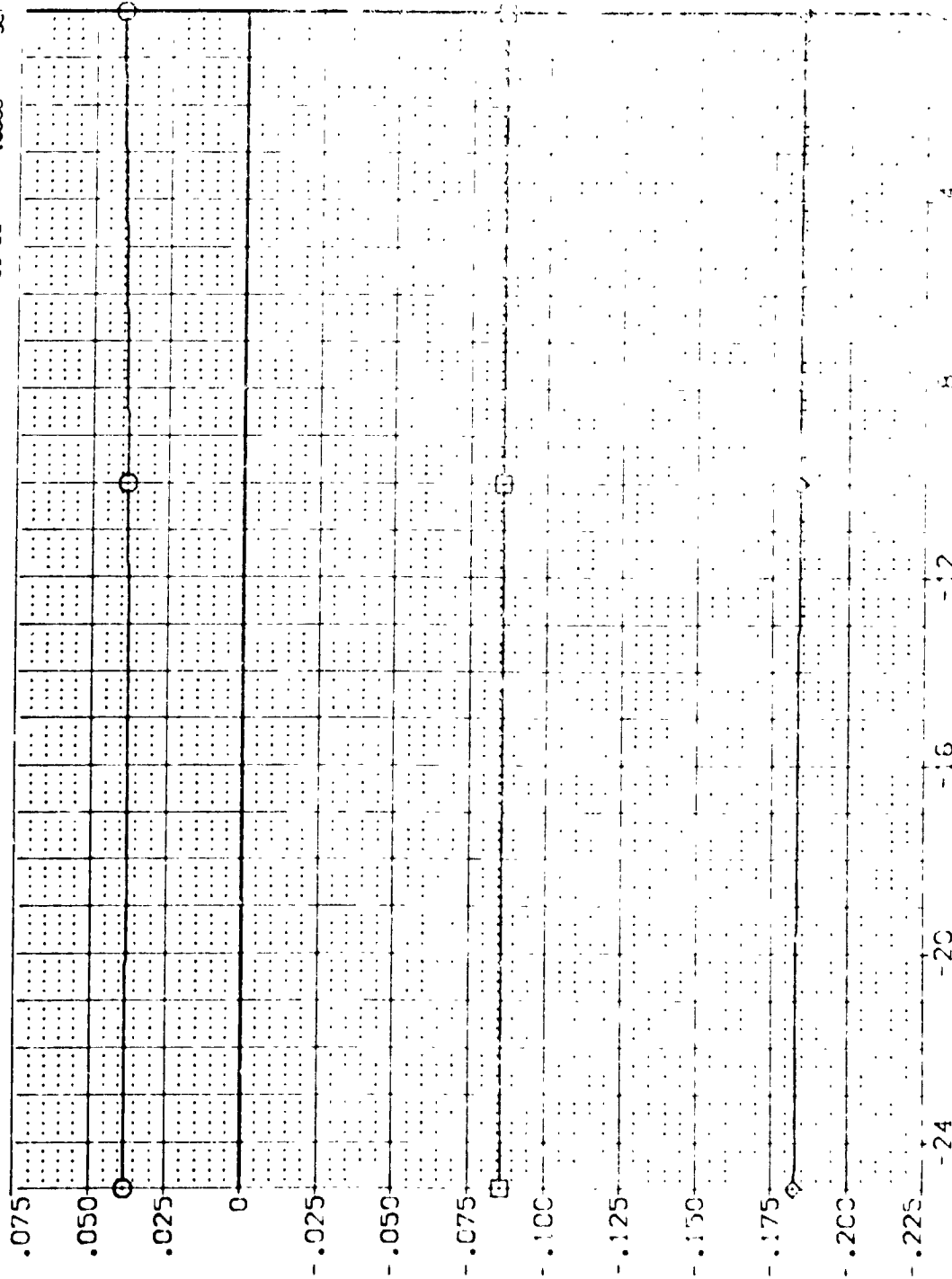


FIG. 49 EFFECT OF RUDDER DEFLECTION ON ELEVON HINGE MOMENT, SPEEDBRAKE = 55 DEG

ARC 97-747 OA538 B C M F W1 V NOM. RN/L

(EEK032)

SYMBOL

ALPHA

MACH

PARAMETRIC VALUES

BETA

ELEVON

BD FLAP

ELEV-L

ELEV-R

SPDRK

SCALE

REFERENCE INFORMATION

SREF 2.4210 SQ.FT.
LREF 14.2440 IN.
BREF 28.004 IN.
XMRP 32.3016 IN.
YMRP 0.000 IN.
ZMRP 11.2500 IN.
SCALE .0300

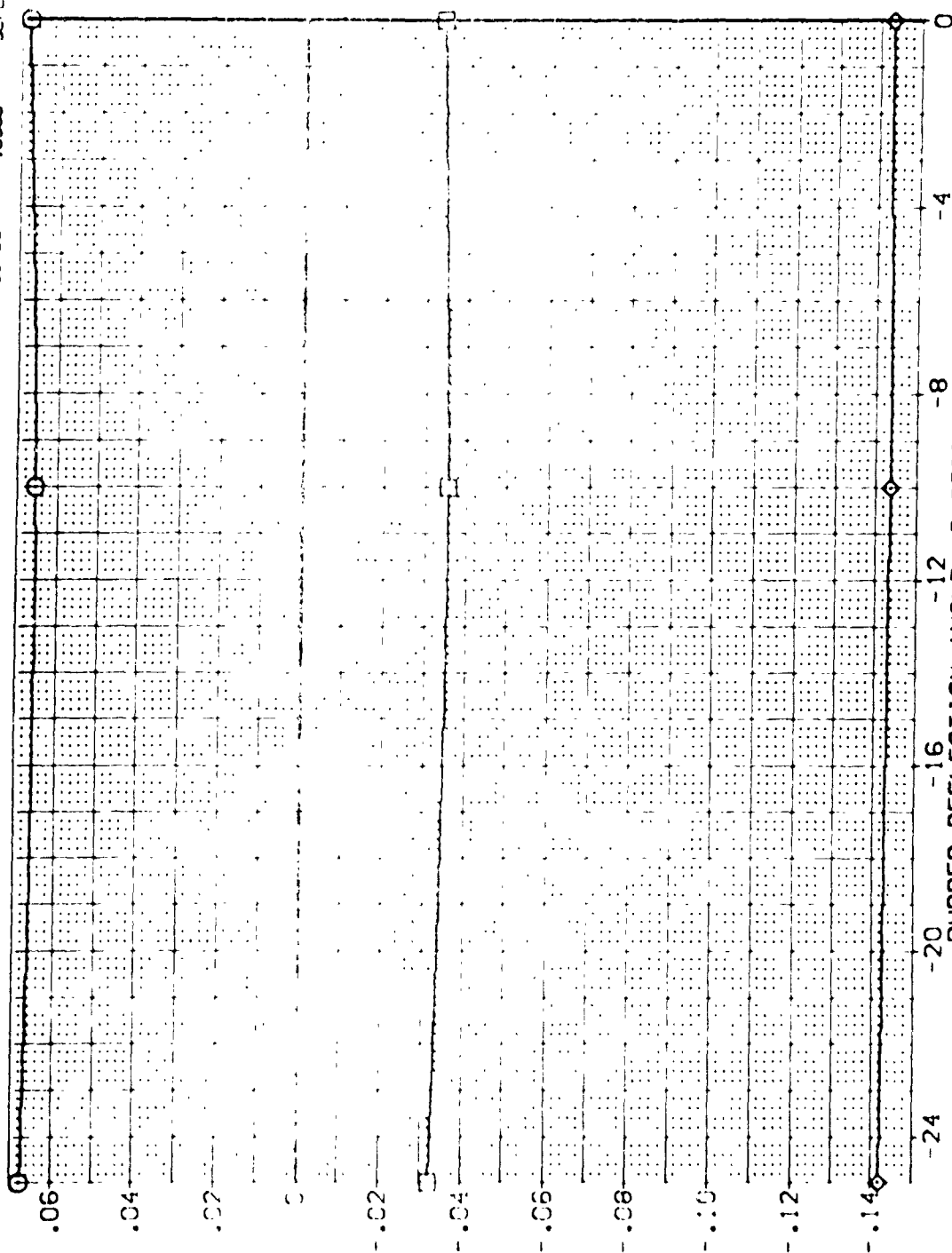


FIG. 49 EFFECT OF RUDDER DEFLECTION ON ELEVON HINGEMOMENT, SPEEDBRAKE = 55 DEG

SYMBOL

ALPHA

.000
10.000
20.000

PARAMETRIC VALUES

MACH 2.000 BETA .000
ELEVON .000 ALLRON .000
BOFLAP -11.700 SPEEDRK 55.000
ELEV-L .000 ELEV-R .000

REFERENCE INFORMATION
SPREF 2.4210 SC.FT.
LRPF 14.2440
BRPF 28.1004
XMRP 32.3010
YMRP .0000
ZMRP 11.2500
SCALE .0300



FIG. 49 EFFECT OF RUDDER DEFLECTION ON ELEVON HINGEMENT, SPEEDBRAKE = 55 DEG

SYMBOL

□ □ ◇

ALPHA
-0.000
10.000
20.000

PARAMETRIC VALUES
MACH 1.600
ELEVON .000
BOFLAP -11.700
ELEV-L .000

BETA .000
AILRON .000
SPDRK 55.000
ELEV-R .000

REFERENCE INFORMATION
SREF 2.4210 SQ. FT.
LREF 14.2440 N.
BREF 28.1004 N.
XMRP 32.3010 N.
YMRP 00.0000 N.
ZMRP 11.2500 N.
SCALE .0300

OUTBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, CHEO

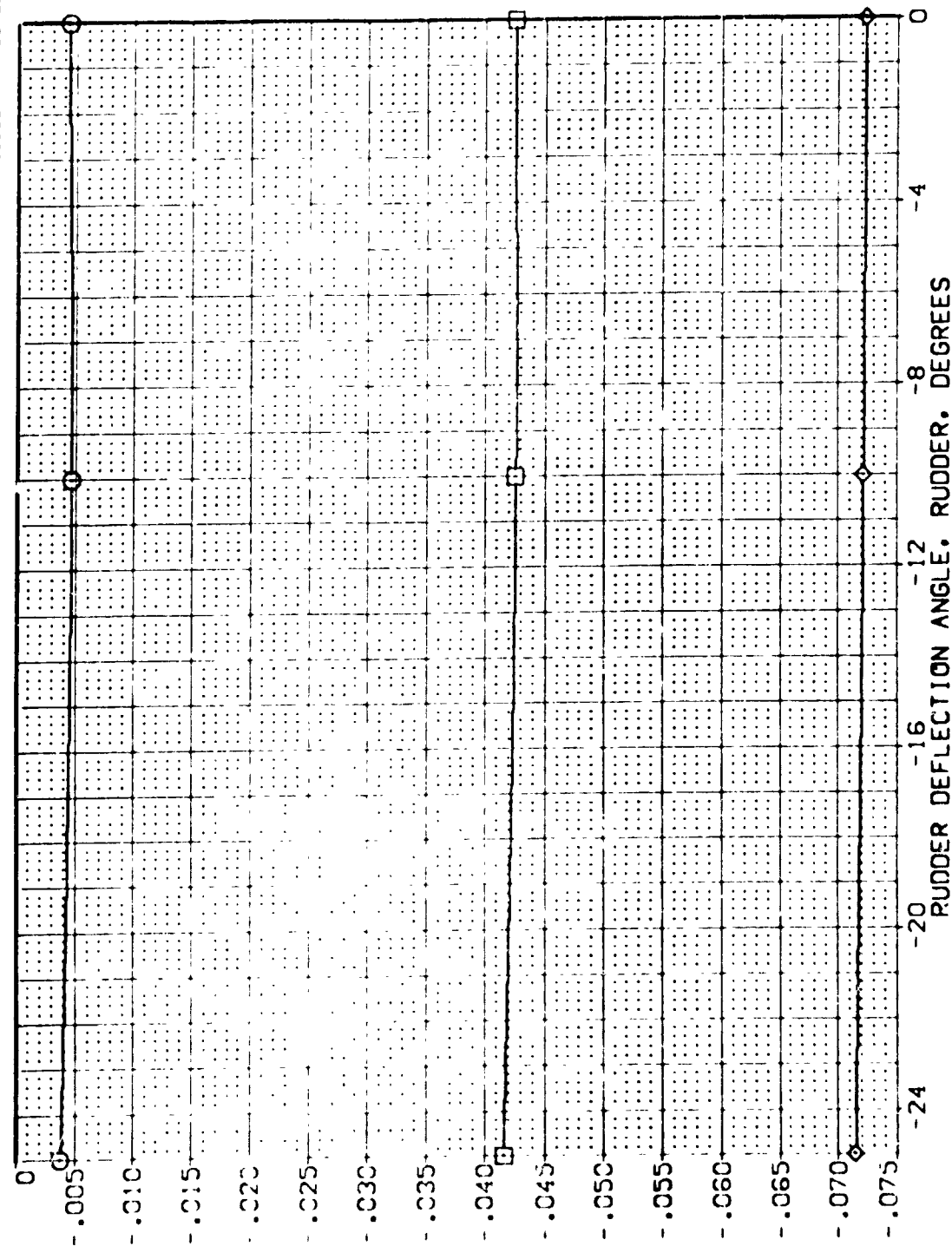


FIG. 49 EFFECT OF RUDDER DEFLECTION ON ELEVON HINGEMENT, SPEEDBRAKE = 55 DEG

ARC 97-747 0A53B B C M F W1 V NOM. RN/L

(SEEK032)

SYMBOL
○ 1.0
◇ 0.10

ALPHA
.000
10.000
20.000

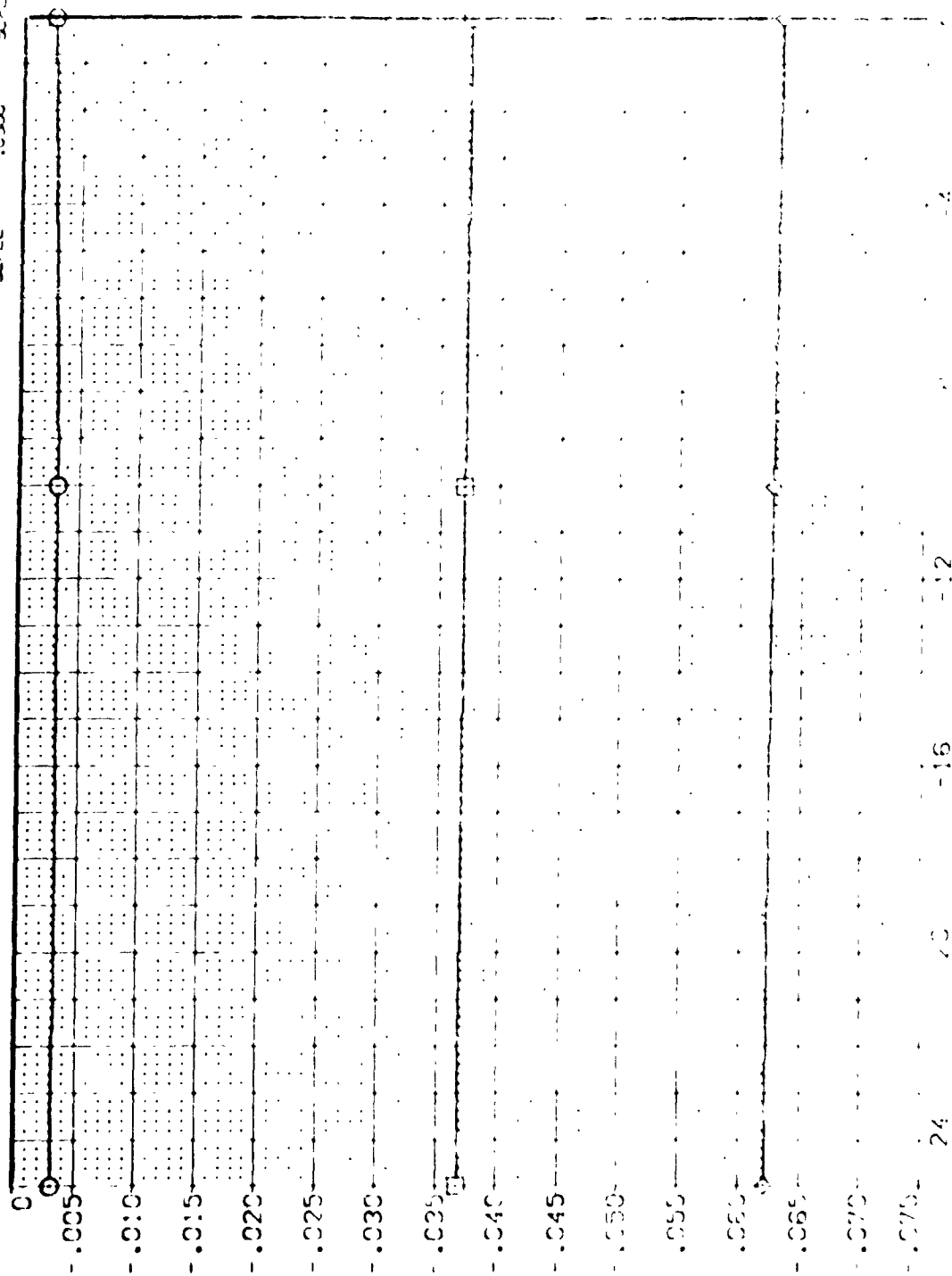
MACH
ELEVON
BDF LAP
ELEV-L

PARAMETRIC VALUES
2.000 BETA
.000 AILRON
-11.700 SPOBRK
.000 ELEV-R

.000
.000
56.000
.000

REFERENCE INFORMATION
SREF 2.4210
LREF 14.2440
BREF 28.1004
VREF 32.3000
WREF 11.7000
SCALE 0.500

OUTBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, C_{HED}



24 12 16
RUDDER DEFLECTION ANGLE, DEGREE

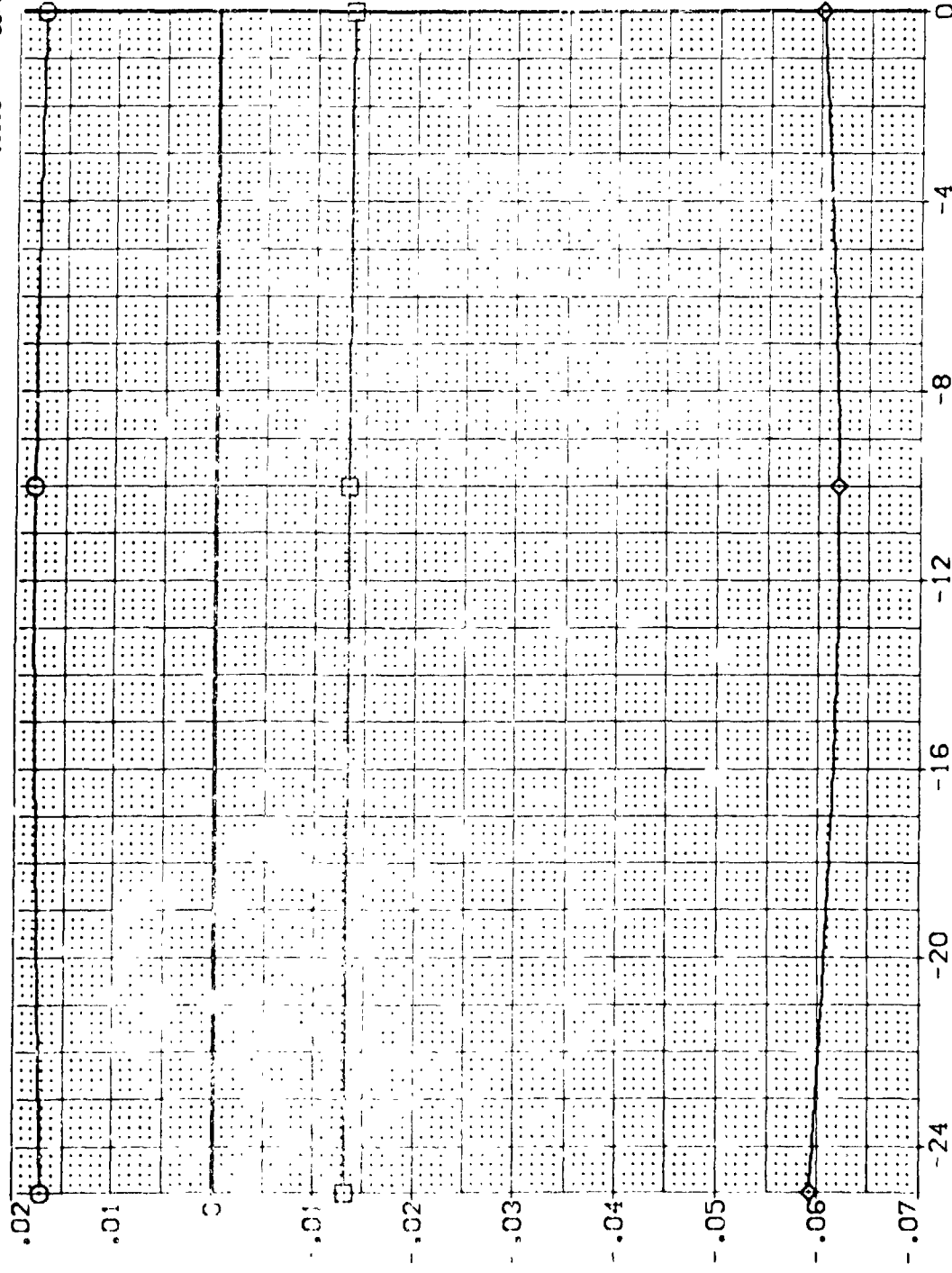
FIG. 49 EFFECT OF RUDDER DEFLECTION ON ELEVON HINGE MOMENT, SPEED 12-16

ARC 97-747 0A53B B C M F W1 V NGM. RN/L (EEK032)

SYMBOL
◇
○
□

PARAMETRIC VALUES
ALPHA .000 MACH 1.600 BETA .000
10.000 ELEVON .000 AILRON .000
20.000 BOFLAP -11.700 SPOBRK 55.000
ELEV-R .000 ELEV-R .000

REFERENCE INFORMATION
SREF 2.4210 SQ.FT.
LREF 14.2440 IN.
BREF 28.1004 IN.
XMRP 32.3010 IN.
YMRP .0000 IN.
ZMRP 11.2500 IN.
SCALE .0300



BODYFLAP HINGE MOMENT COEFFICIENT, C_HBF

RUDDER DEFLECTION ANGLE, DEGREES

FIG. 50 EFFECT OF RUDDER DEFLECTION ON BODYFLAP HINGEMOMENT, SPEEDBRAKE= 55 DEG

SYMBOL
○ □ ◇

ALPHA
.000
10.000
20.000

PARAMETRIC VALUES
MACH 2.000
ELEVON .000
BDFLA -11.700
ELEV-R .000

BETA .000
AILRON .000
SPOBRK 55.000
ELEV-R .000

REFERENCE INFORMATION
SREF 2.4210 SQ.FT.
LREF 14.2440 Z.
BREF 28.1004 Z.
XMRP 32.3010 Z.
YMRP .0000 Z.
ZMRP 11.2500 Z.
SCALE .0300



BODYFLAP HINGE MOMENT COEFFICIENT, CHBF

RUDDER DEFLECTION ANGLE, RUDDER, DEGREES

FIG. 50 EFFECT OF RUDDER DEFLECTION ON BODYFLAP HINGEMOMENT. SPEEDBRAKE= 55 DEG

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOLAP	SPOBRK	REFERENCE INFORMATION
[YK012]	ARC 97-747 0A538 B C M F VI V	.000	.000	-11.700	55.000	SREF 2.4210 50.0 FT.
[YK013]	ARC 97-747 0A538 B C M F VI V	10.000	.000	-11.700	55.000	LREF 14.2440 IN.
[YK014]	ARC 97-747 0A538 B C M F VI V	20.000	.000	-11.700	55.000	BREF 28.1004 IN.
						XMRP 32.3010 IN.
						YMRP .0000 IN.
						ZMRP 11.2500 IN.
						SCALE .0300 IN.

UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUL

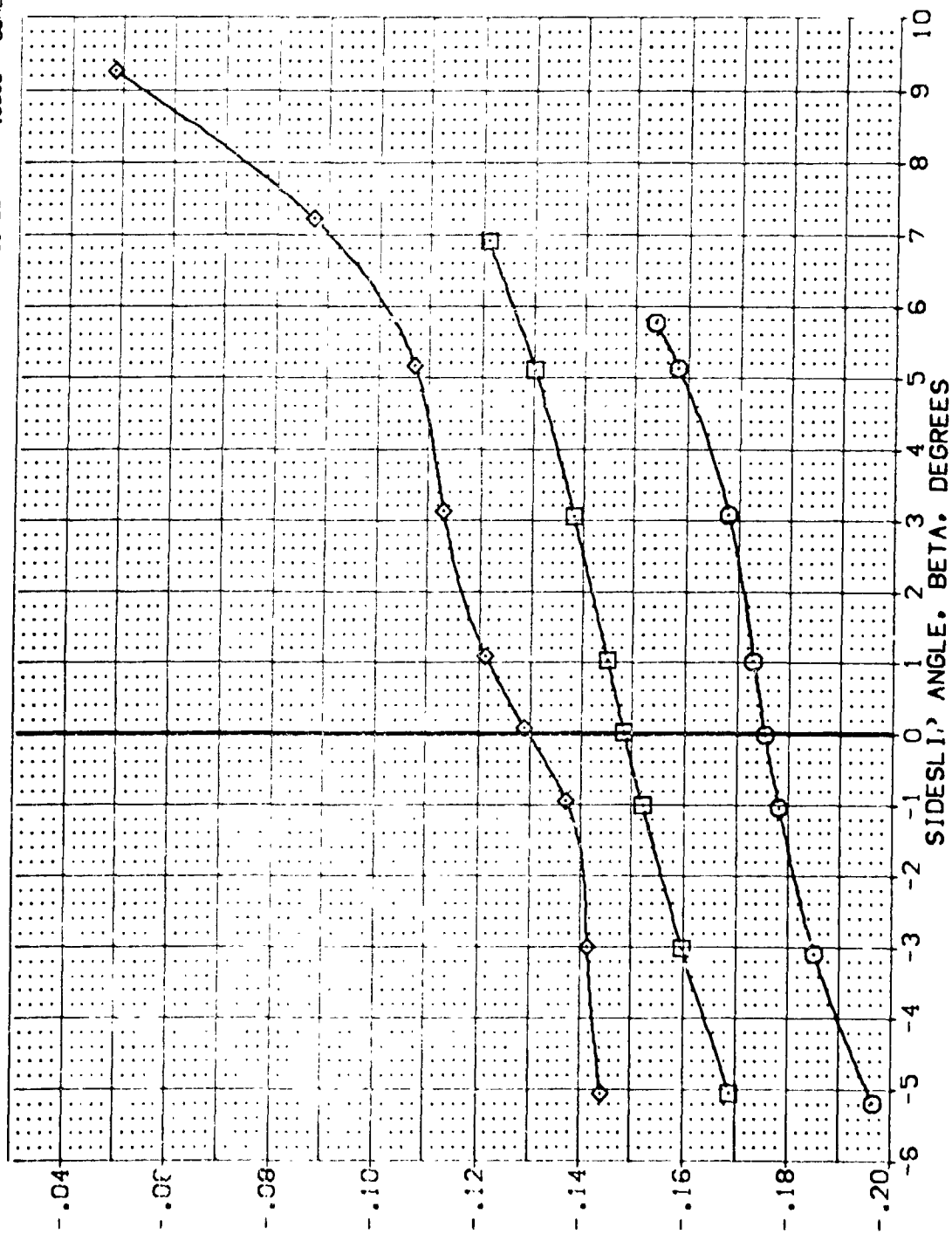



FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
(A)MACH = 1.60

DATA SET SYMBOL:  CONFIGURATION DESCRIPTION: ARC 97-747 OAS38 B C M F V1 V NOT: RN/L ARC 97-747 OAS38 B C M F V1 V NOT: RN/L ARC 97-747 OAS38 B C M F V1 V NOT: RN/L

ALPHA	RUDDER	BOFLAP	SPDRK	REFERENCE INFORMATION
0.000	.000	-11.700	55.000	SREF 2.4210 SQ.FT.
10.000	.000	-11.700	55.000	LREF 14.2440 IN.
20.000	.000	-11.700	55.000	BREF 28.100 IN.
				XMRP 32.3010 IN.
				YMRP .0000 IN.
				ZMRP .0000 IN.
				SCALE 11.2500
				SCALE .0300

UPPER LEFT SPEED BRAKE PANEL HINGE MCMNT COEFFICIENT, CHUL

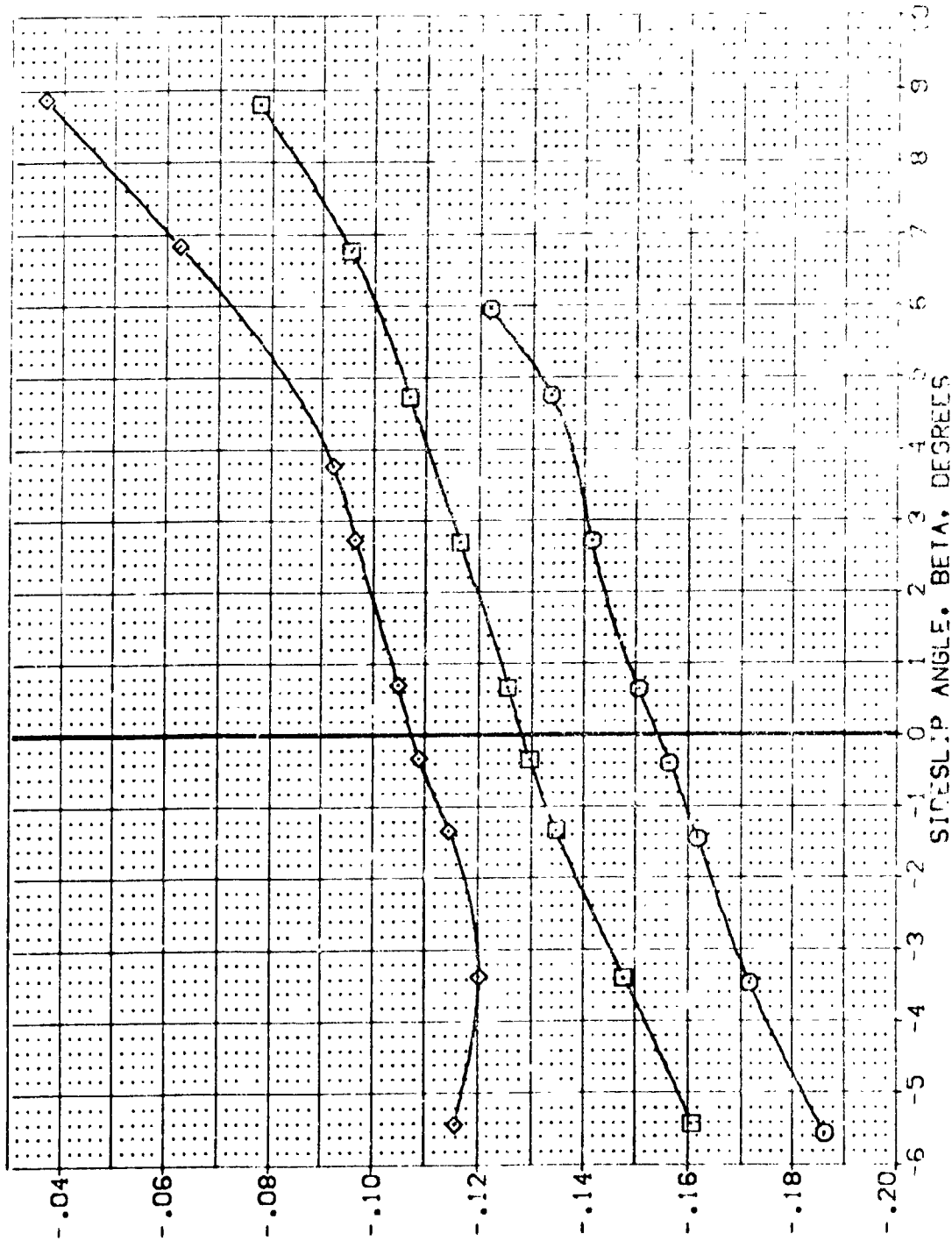


FIG. 51 RUDDER PANEL HINGEMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BDFLAP	SPOBRK	REFERENCE INFORMATION
(YEQ12)	ARC 97-747 DAS38 B C M F V1	.000	.000	-11.700	55.000	SREF 2.4210 SQ.FT.
(YEQ13)	ARC 97-747 DAS38 B C M F V1	10.000	.000	-11.700	55.000	LREF 14.2440 IN.
(YEQ14)	ARC 97-747 DAS38 B C M F V1	20.000	.000	-11.700	55.000	BREF 28.1004 IN.
						XMRRP 32.3010 IN.
						YMRRP .0000 IN.
						ZMRRP 11.2500 IN.
						SCALE .0300 SCALE

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

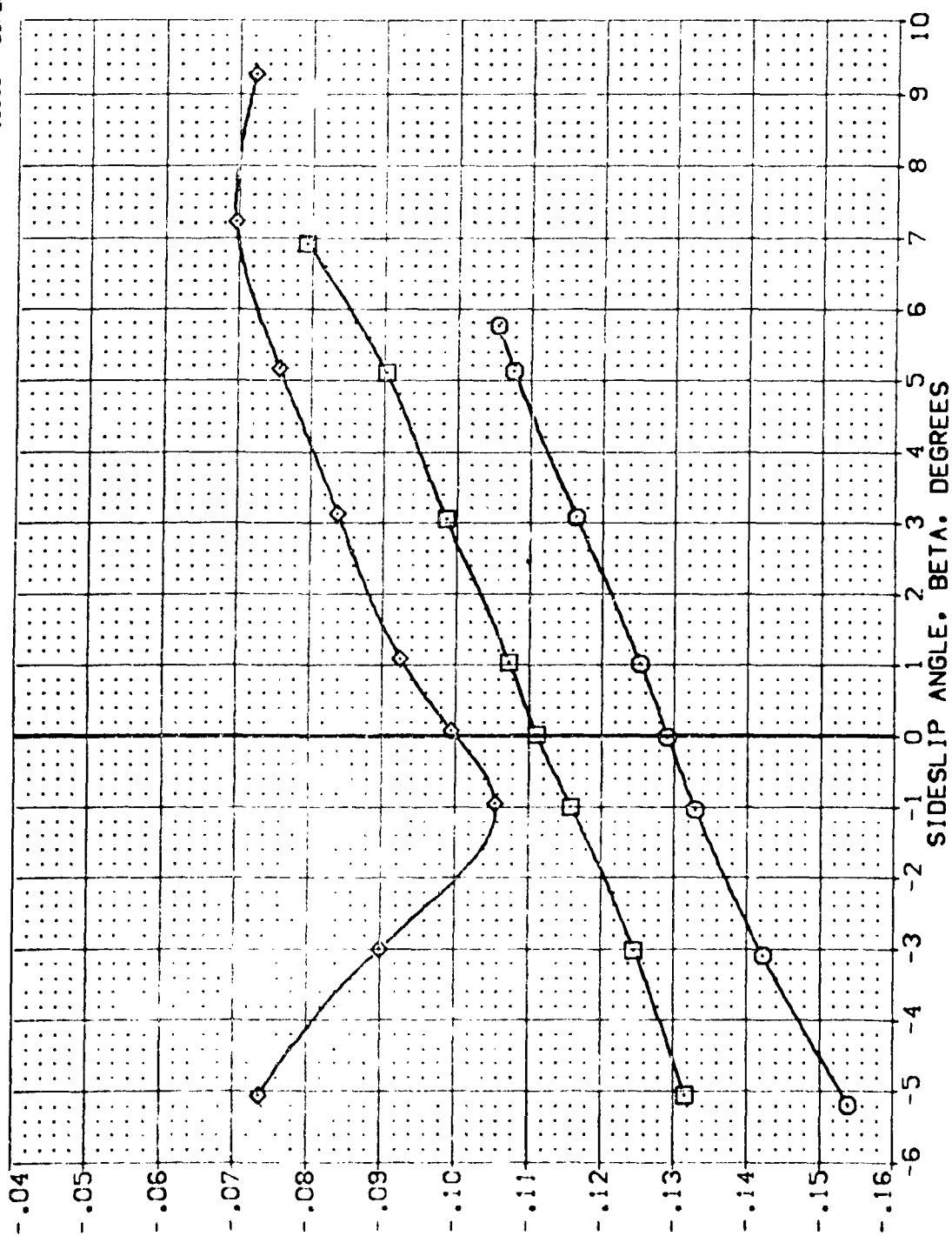


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BD LAP	SPEED BRK	REFERENCE INFORMATION
(YK012)	ARC 97-747 0A538 B C M F V1 V	.000	.000	-11.700	55.000	SREF 2.4210 SC.F.F.
(YK013)	ARC 97-747 0A538 B C M F V1 V	.000	.000	-11.700	55.000	LREF 14.2440 IN.
(YK014)	ARC 97-747 0A538 B C M F V1 V	20.000	.000	-11.700	55.000	BREF 28.1004 IN.
						XMRRP 32.3010 IN.
						YMRRP .0000 IN.
						ZMRRP 11.2500 IN.
						SCALE .0300

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

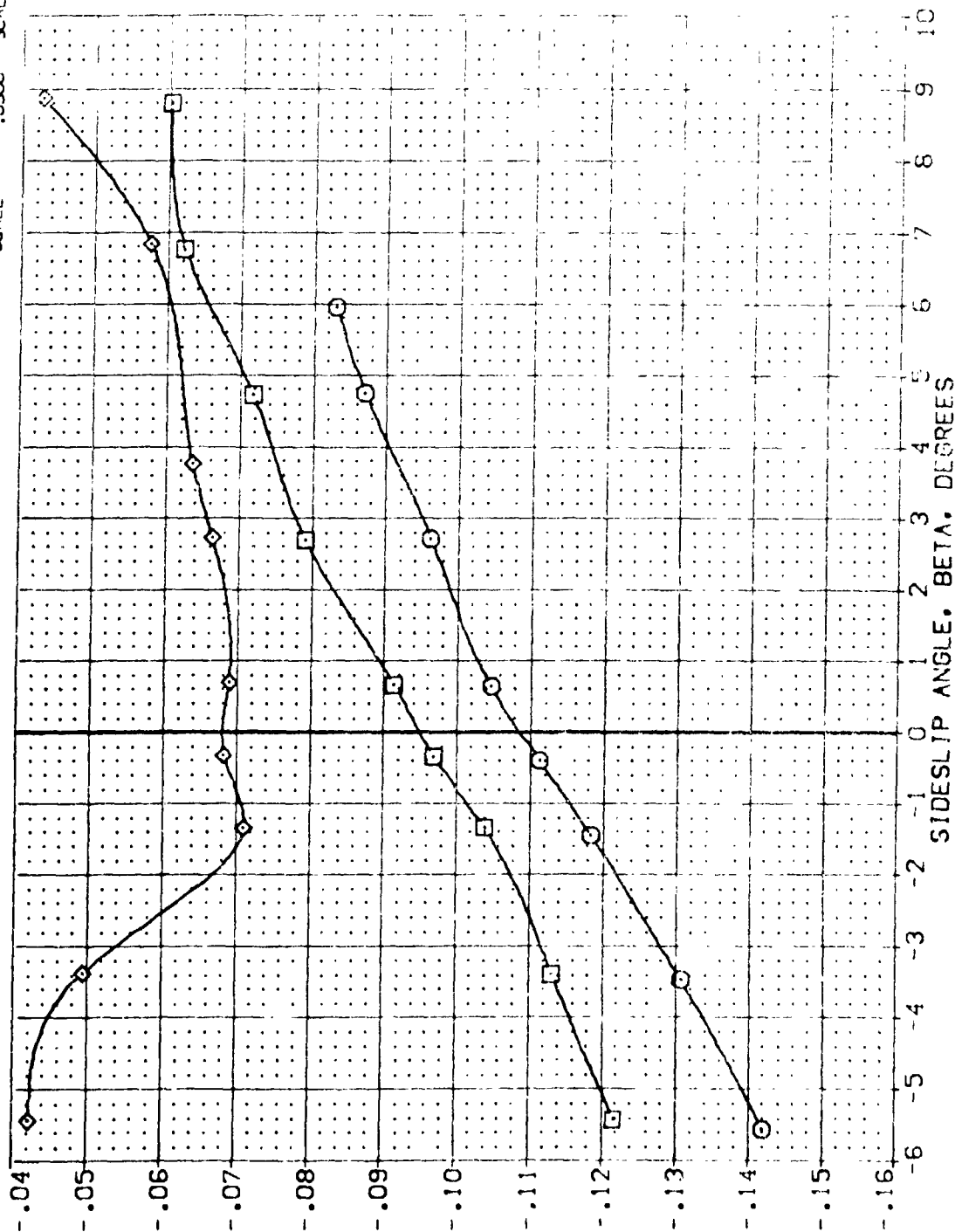


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
(B)MACH = 2.00 PAGE 522



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BD/LAP	SPOBRK	REFERENCE INFORMATION
(YK012)	ARC 97-747 DA538 B C M F V1	.000	.000	-11.700	55.000	SREF 2.4210
(YK013)	ARC 97-747 DA538 B C M F V1	10.000	.000	-11.700	55.000	LREF 14.2440
(YK014)	ARC 97-747 DA538 B C M F V1	20.000	.000	-11.700	55.000	BREF 28.1004
						XMRP 32.3010
						ZMRP .0000
						SCALE 11.2500
						SCALE .0000

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

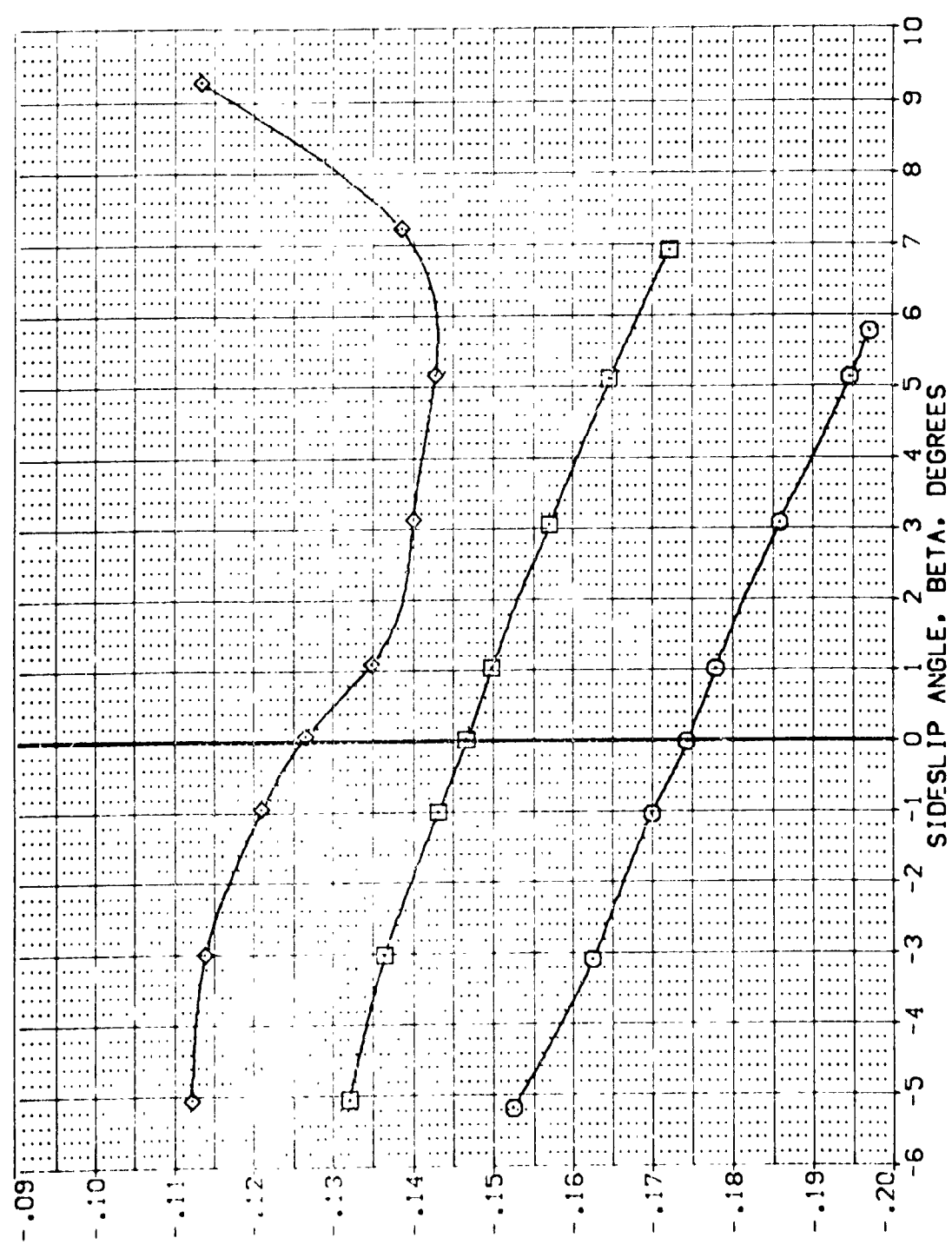


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
{YK012}	ARC 57-747 DA538 B C M F VI V	.000	.000	-11.700	55.000	SREF 2.4210
{YK013}	ARC 57-747 DA538 B C M F VI V	10.000	.000	-11.700	55.000	LREF 14.2410
{YK014}	ARC 57-747 DA538 B C M F VI V	20.000	.000	-11.700	55.000	BREF 28.1004
						XMRP 32.3010
						YMRP .0000
						ZMRP 11.2500
						SCALE .0300

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

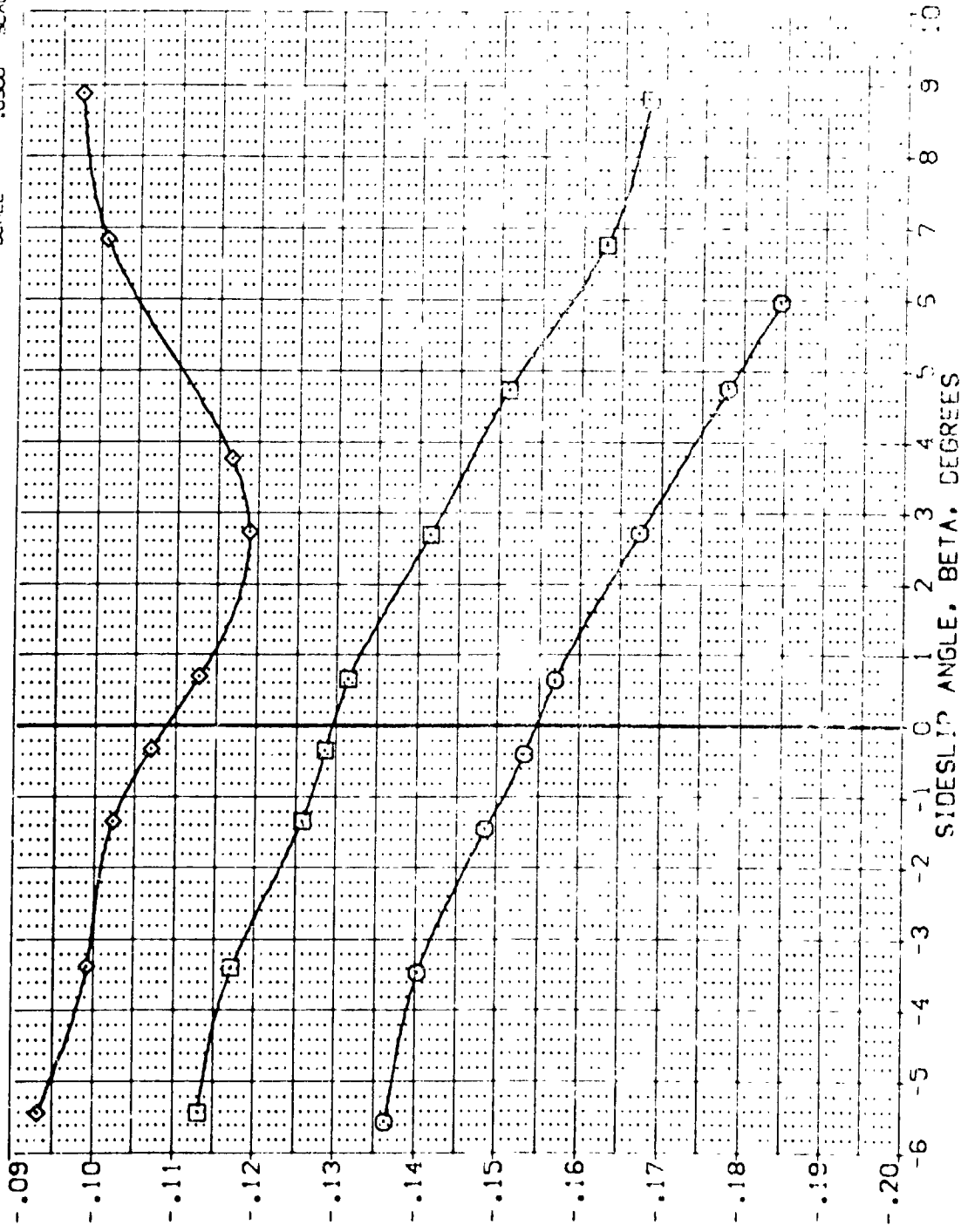
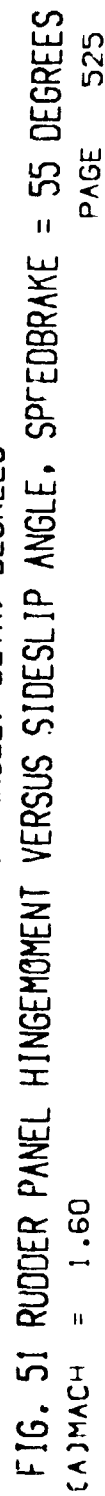


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
(B)MACH = 2.00

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLR



DATA SET SYMBOL CONFIGURATION DESCRIPTION

ARC	77-747	DA538	B	C	M	F	V	Y	NO	RV/L
ARC	77-747	DA538	B	C <td>M</td> <td>F</td> <td>V</td> <td>Y</td> <td>NO</td> <td>RV/L</td>	M	F	V	Y	NO	RV/L
ARC	77-747	DA538	B	C <td>M</td> <td>F</td> <td>V</td> <td>Y</td> <td>NO</td> <td>RV/L</td>	M	F	V	Y	NO	RV/L
ARC	77-747	DA538	B	C <td>M</td> <td>F</td> <td>V</td> <td>Y</td> <td>NO</td> <td>RV/L</td>	M	F	V	Y	NO	RV/L

REFERENCE INFORMATION

SIZE	2.4210	50.00
LR	14.2440 <td>N</td>	N
BR	28.1004 <td>N</td>	N
YMR	32.3010 <td>N</td>	N
ZMR	.0000 <td>N</td>	N
SCALE	11.2500 <td>N</td>	N
SCALE	.0300 <td>N</td>	N

ALPHA

RUDDER	BD LAP	SPOBRK
.000	-11.700	55.000
.000	-11.700	55.000
.000	-11.700	55.000

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, C

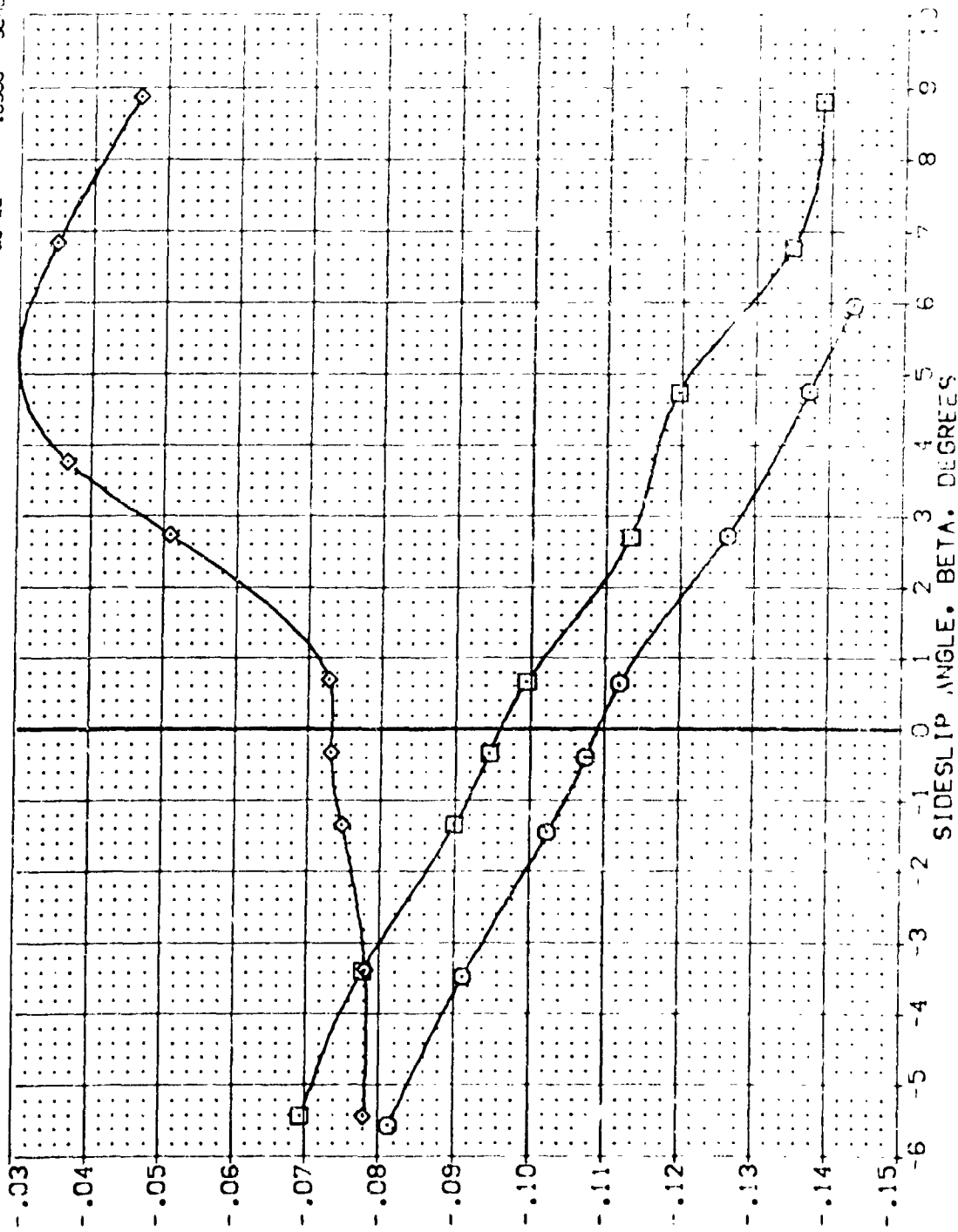


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
(B)MACH = 2.00

DATA SET SYMBOL. CONFIGURATION DESCRIPTION

[YEM029] ARC 97-747 OAS38 B C H F VI V

[YEM030] ARC 97-747 OAS38 B C H F VI V

[YEM031] ARC 97-747 OAS38 B C H F VI V

NON: RV/L

NON: RV/L

NON: RV/L

ALPHA RUDDER BOFLAP SPEEDBRK

10.000 -10.000 -11.700 55.000

20.000 -10.000 -11.700 55.000

REFERENCE INFORMATION

SREF 2.4210 SQ.FT.

LREF 14.2440 IN.

BREF 28.1004 IN.

XMRP 32.3010 IN.

YMRP .0000 IN.

ZMRP 11.2500 IN.

SCALE .0300

UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUL

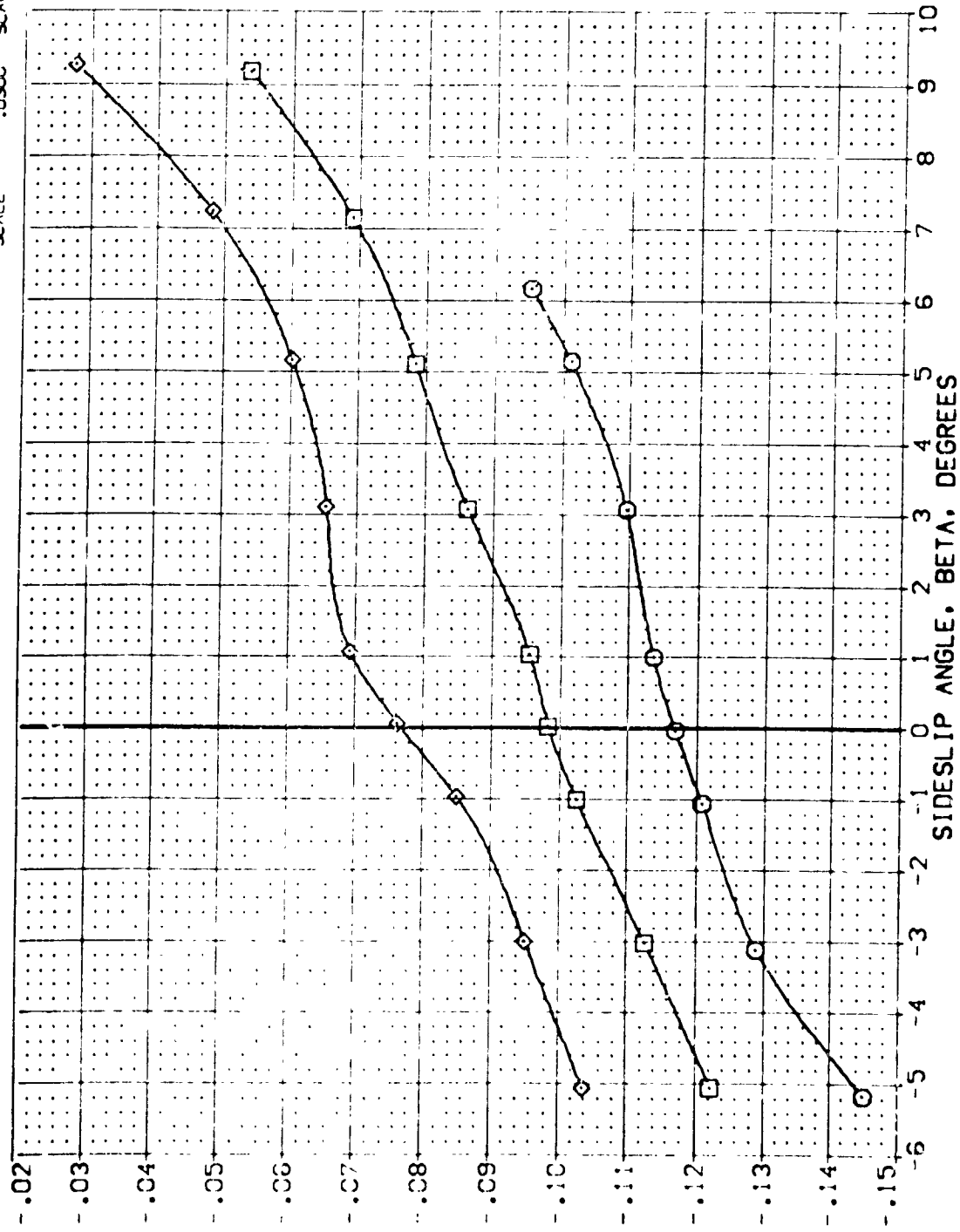


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE. SPEEDBRAKE = 55 DEGREES
(A)MACH = 1.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
[YK029]	ARC 97-747 OAS38 B C M F VI V	0.000	-10.000	-11.700	55.000	SREF 2.4210 50. FT.
[YK030]	ARC 97-747 OAS38 B C M F VI V	10.000	-10.000	-11.700	55.000	LREF 14.2440 11.700
[YK031]	ARC 97-747 OAS38 B C M F VI V	20.000	-10.000	-11.700	55.000	BREF 28.1000 11.700
						XMRD 32.3010 11.700
						YMRD 11.0000 11.700
						ZMRD 11.0000 11.700
						SCALE .0300

UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUL

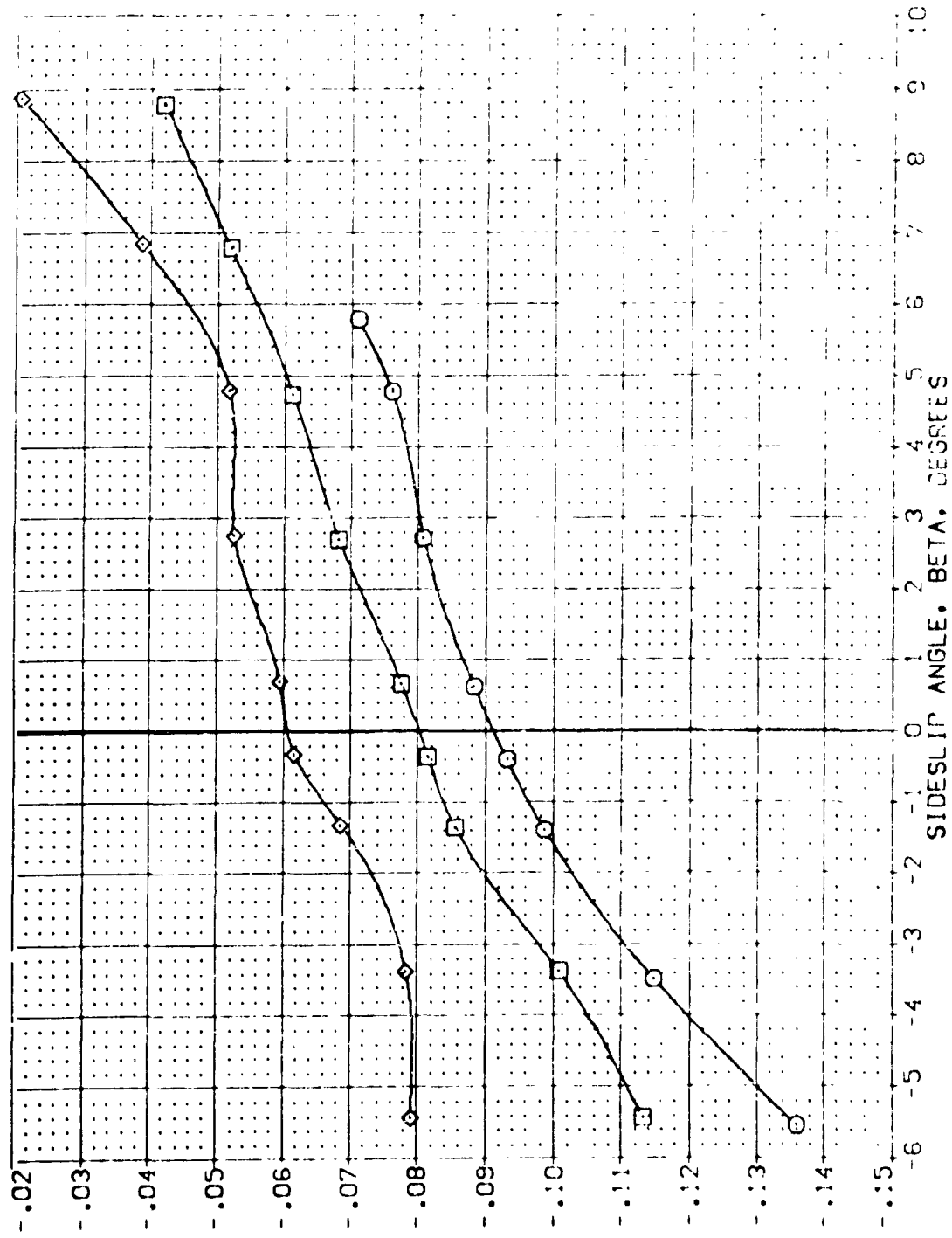


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
(B)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [YEA029] Q ARC 97-747 DA538 B C M F V V
 [YEA030] X ARC 97-747 DA538 B C M F V V
 [YEA031] X ARC 97-747 DA538 B C M F V V

ALPHA RUDDER BDF LAP SPDBRK
 0.000 -10.000 -11.700 55.000
 10.000 -10.000 -11.700 55.000
 20.000 -10.000 -11.700 55.000

REFERENCE INFORMATION
 SPREF 2.4210 50. FT.
 LREF 14.2440
 BREF 28.1004
 XMRP 32.3010
 YMRP 0.0000
 ZMRP 11.2500
 SCALE 0.0000

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

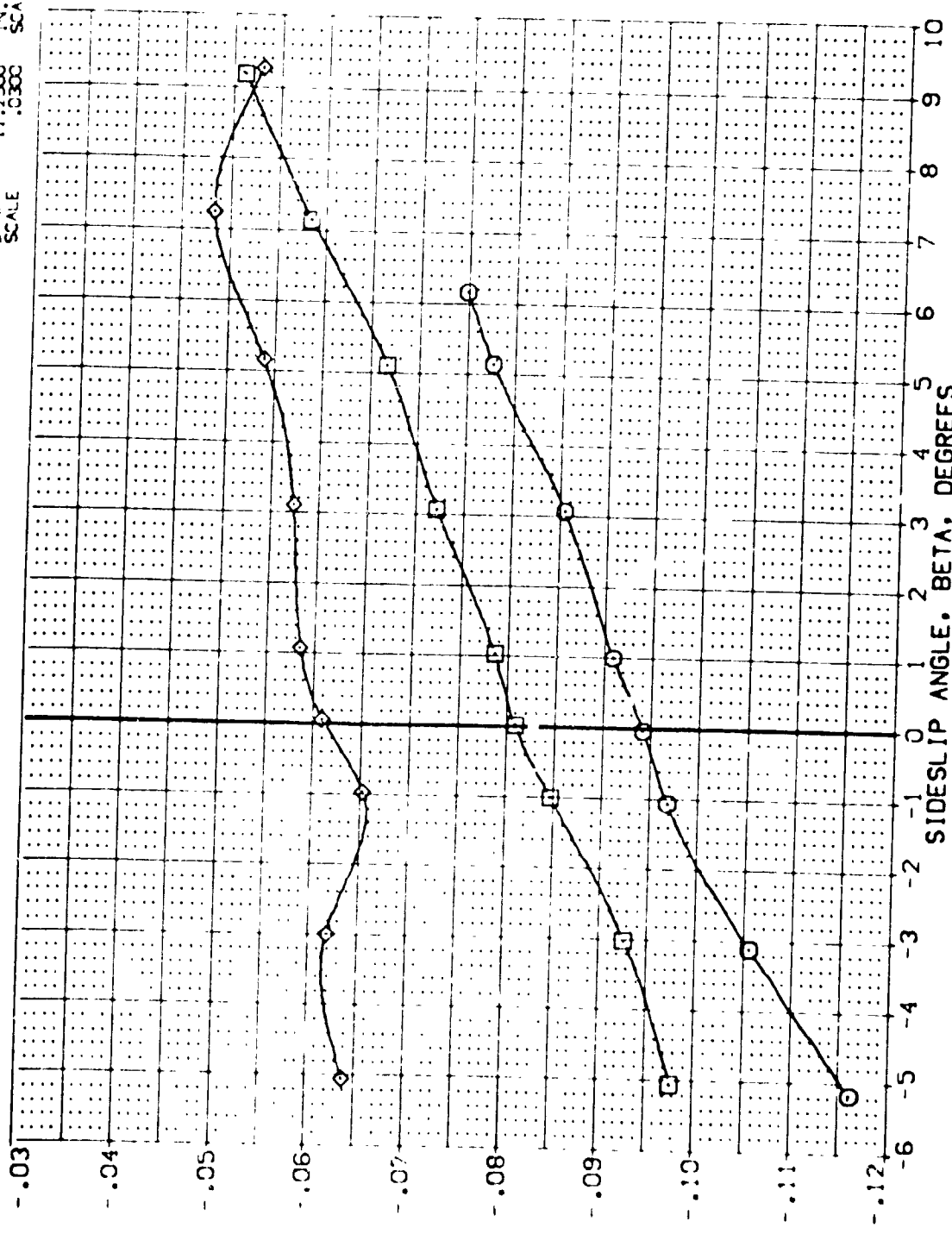


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
 (A)MACH = 1.60

DATA SET SYMBOL: CONFIGURATION DESCRIPTION

SYMBOL	ARC 57-747	BAL 38	B C M F V	V	NOM	RN/L
□	ARC 57-747	BAL 38	B C M F V	V	NOM	RN/L
◇	ARC 57-747	CAS 38	B C M F V	V	NOM	RN/L
◇	ARC 57-747	CAS 38	B C M F V	V	NOM	RN/L

REFERENCE INFORMATION

SYMBOL	ARC 57-747	BAL 38	B C M F V	V	NOM	RN/L
SREF	2.4010	2.4010	2.4010	2.4010	2.4010	2.4010
LRREF	14.2440	14.2440	14.2440	14.2440	14.2440	14.2440
BRREF	29.1004	29.1004	29.1004	29.1004	29.1004	29.1004
YMRP	37.0000	37.0000	37.0000	37.0000	37.0000	37.0000
ZMRP	11.2400	11.2400	11.2400	11.2400	11.2400	11.2400
SCALE	0.000	0.000	0.000	0.000	0.000	0.000

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

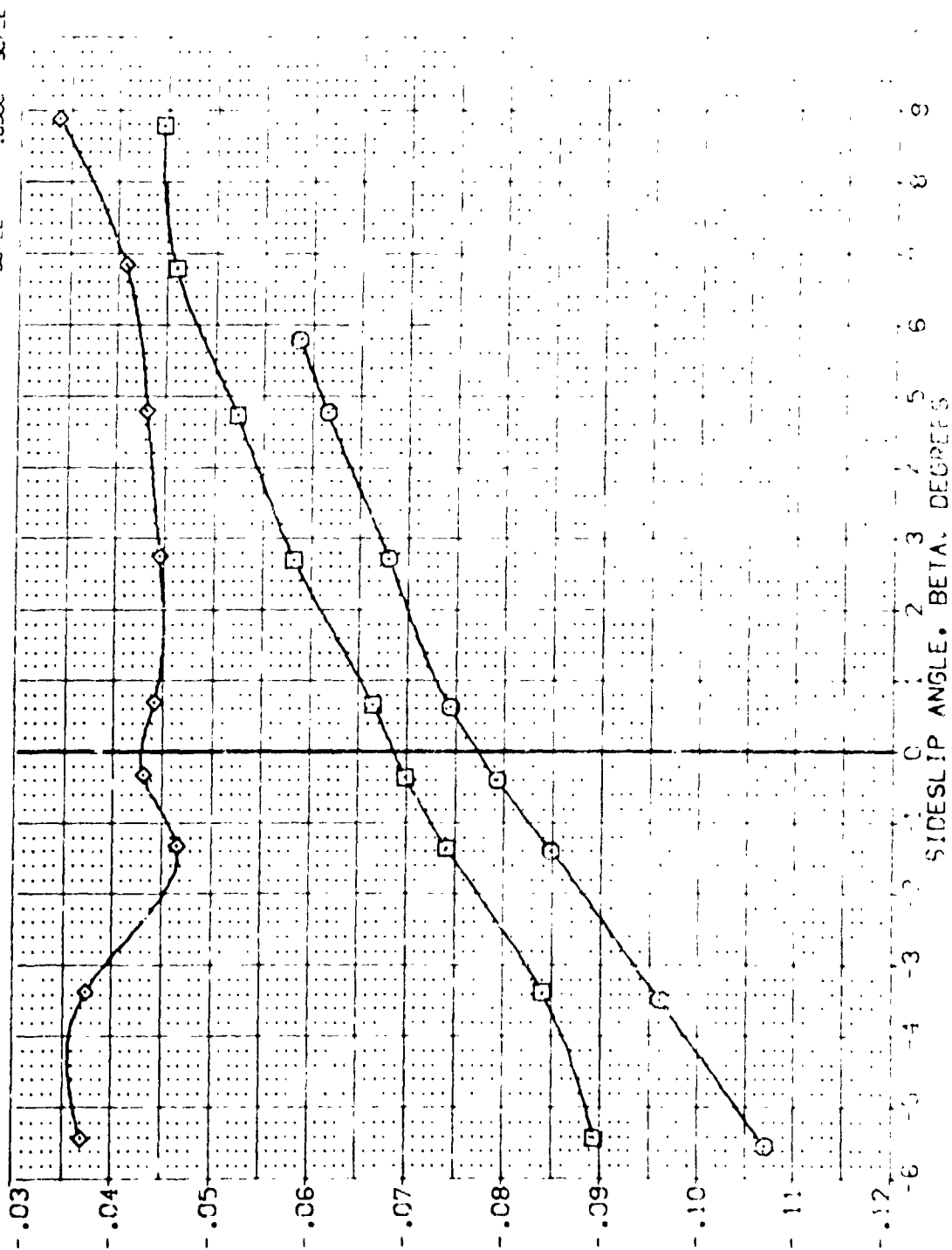


FIG. 51 RUDDER PANEL HINGEMENT VERSUS SIDESLIP ANGLE SPEEDBRAKE - 55 DEGREES
(B)MAC = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BDF LAP	SPOBRK	REFERENCE INFORMATION
(YK079)	ARC 97-747 OAS38 B C M F V	0.000	-10.000	-11.700	55.000	SREF 2.4210 SQ.FT.
(YK030)	ARC 97-747 OAS38 B C M F V	10.000	-10.000	-11.700	55.000	LREF 14.2440 IN.
(YK031)	ARC 97-747 OAS38 B C M F V	20.000	-10.000	-11.700	55.000	BREF 28.1004 IN.
						YMRP 32.3010 IN.
						ZMRP .0000 IN.
						SCALE 11.2500 IN.
						SCALE .0300

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

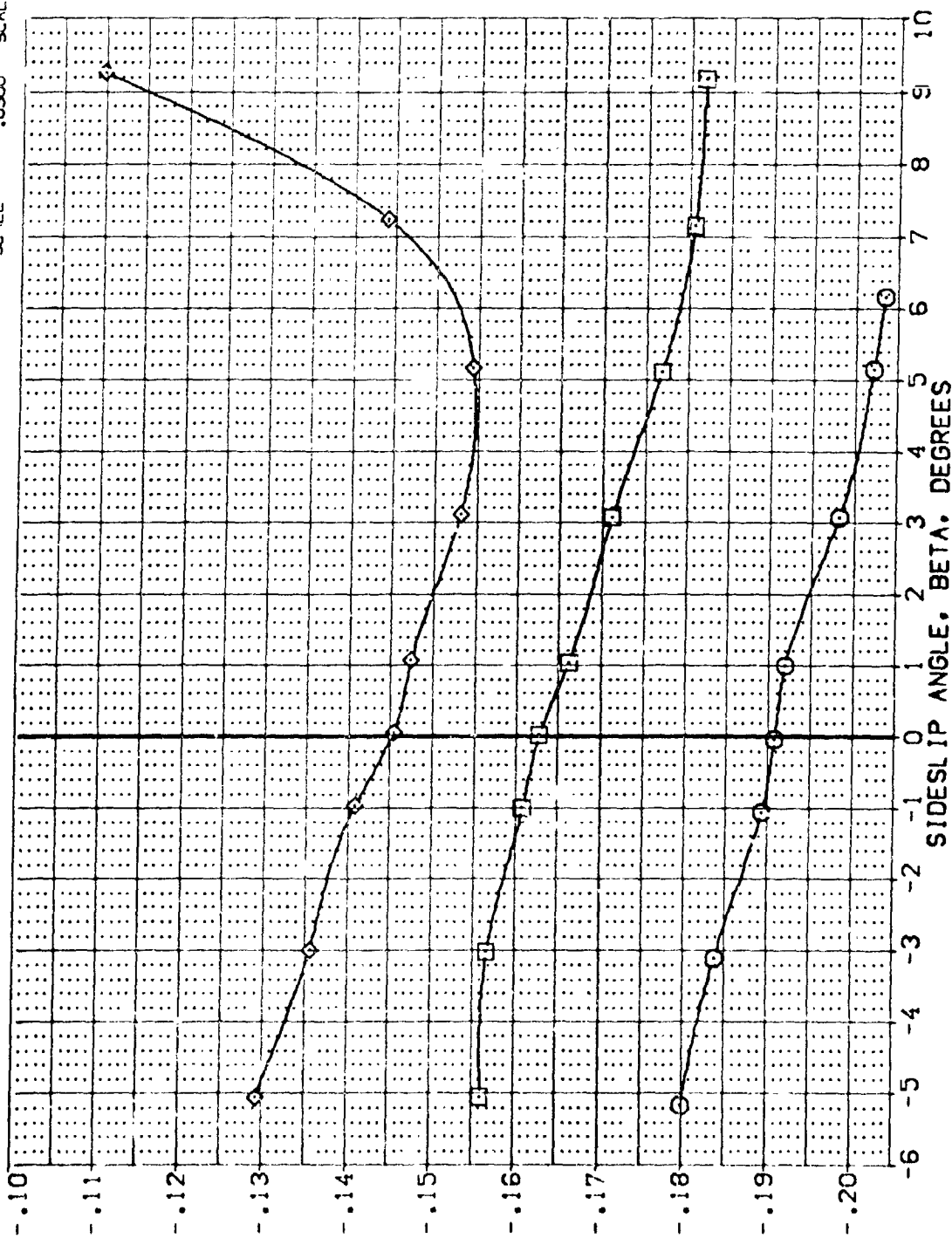


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
(A)MACH = 1.60

DATA SET SYMBOL: [YER028] [YER030] [YER031]

CONFIGURATION DESCRIPTION: ARC 97-747 DAS38 B C M F VI V NOM: RN/L ARC 97-747 DAS38 B C M F VI V NOM: RN/L ARC 97-747 DAS38 B C M F VI V NOM: RN/L

ALPHA: .000 10.000 20.000

RUDDER: -10.000 -10.000 -10.000

BOFLAP: -11.700 -11.700 -11.700

SPOBRK: 55.000 55.000 55.000

REFERENCE INFORMATION: SREF 2.4210 50. FT. LREF 14.2410 50. FT. BREF 26.1004 50. FT. XMRP 30.3013 50. FT. YMRP 11.7500 50. FT. ZMRP 11.7500 50. FT. SCALE 11.7500 50. FT.

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

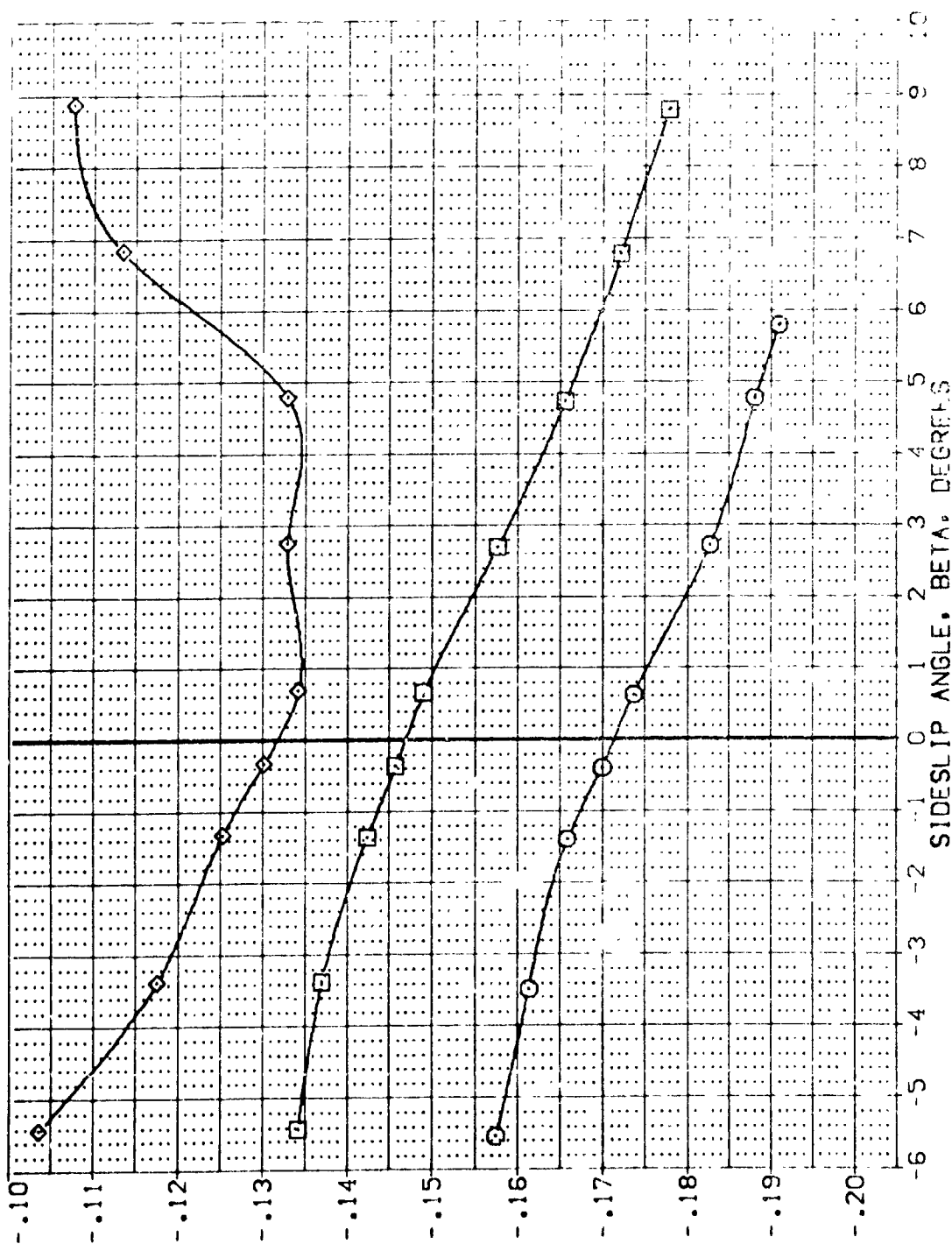


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES (B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
[YK029]	ARC 97-747 DAS38 B C M F V	.000	-10.000	-11.700	55.000	SREF 2.4710
[YK030]	ARC 97-747 DAS38 B C M F V	10.000	-10.000	-11.700	55.000	LREF 14.2440
[YK031]	ARC 97-747 DAS38 B C M F V	20.000	-10.000	-11.700	55.000	BREF 28.1004
						XMRD 32.3010
						YMRD .0000
						ZMRD .0000
						SCALE 11.2500
						SCALE .0300

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLR

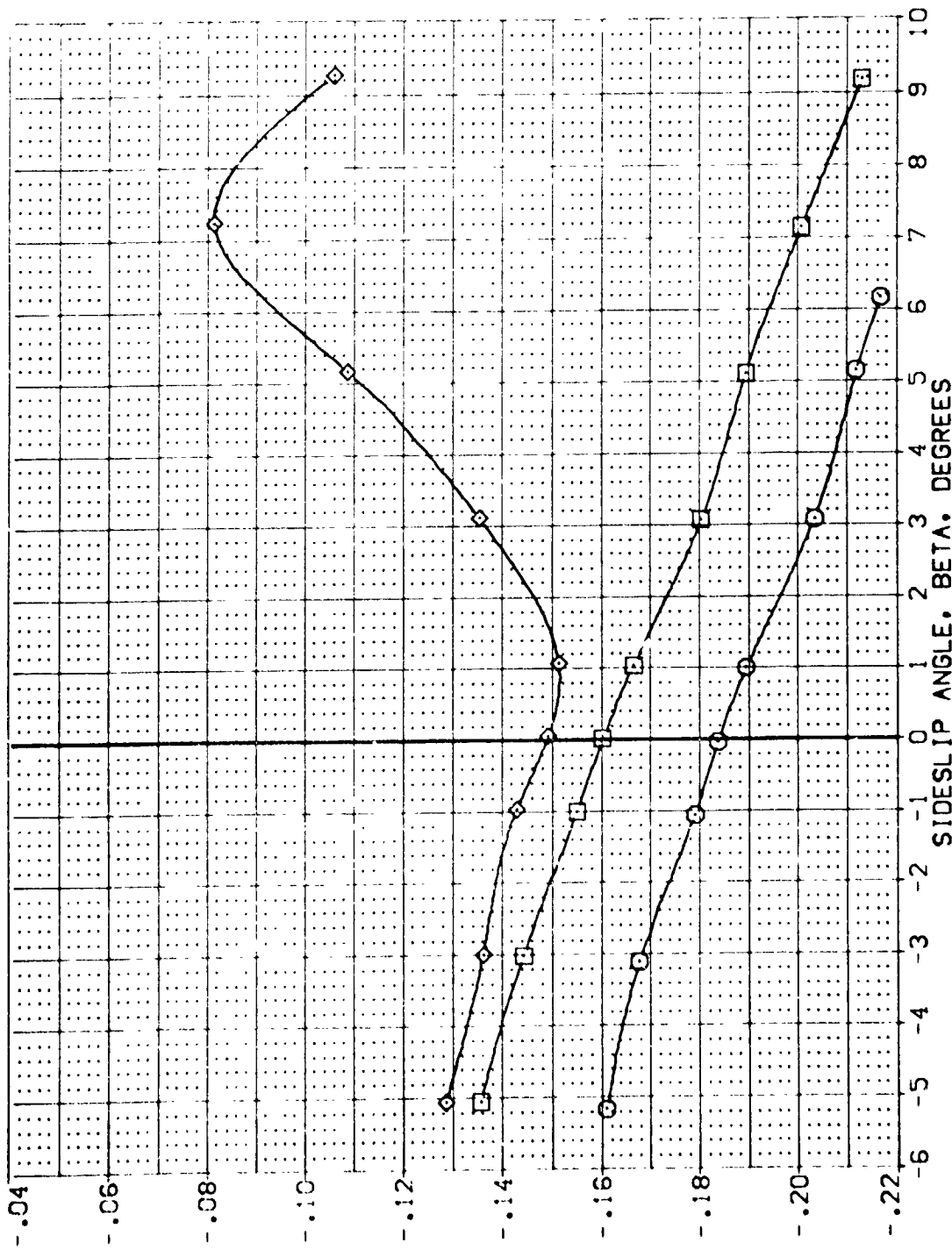


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOF LAR	SPOG WK	REFERENCE INFORMATION
[VEK029]	ARC 97-747 CAS38 B C M F V I V	10.000	-10.000	-11.700	55.000	SREF 2.4210 50.5 FT.
[VEK030]	ARC 97-747 CAS38 B C M F V I V	10.000	-10.000	-11.700	55.000	LREF 14.2440
[VEK031]	ARC 97-747 CAS38 B C M F V I V	20.000	-10.000	-11.700	55.000	BREF 28.1004
						XMRP 37.3010
						YMRP .0003
						ZMRP 11.2500
						SCALE .0000

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLR

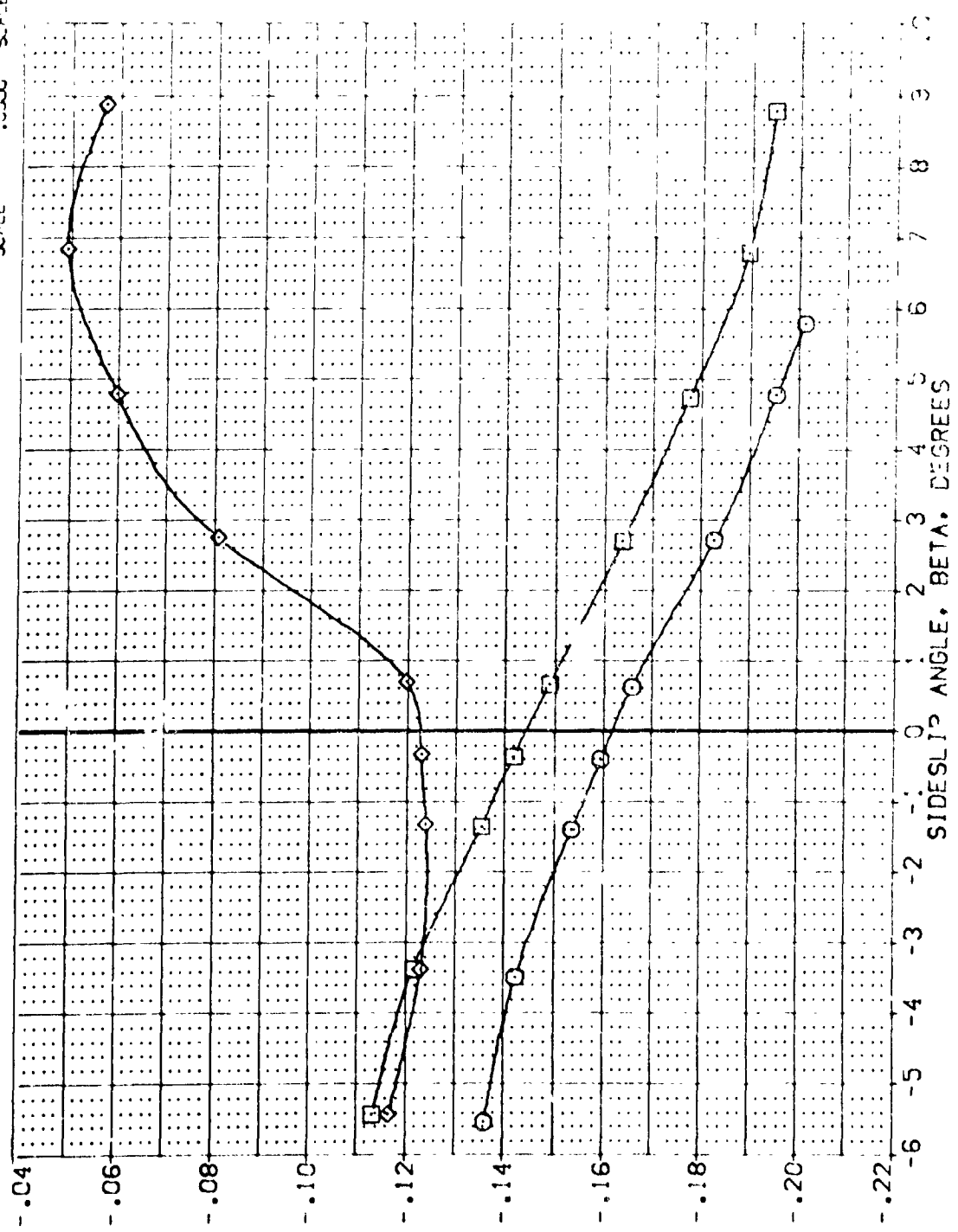


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
(B)MACH = 2.00

DATA SET SYMBOL: [YEN032] [YEN033] [YEN034]

CONFIGURATION DESCRIPTION: ARC 97-747 OAS38 B C H F VI V NOT: RV/L
 ARC 97-747 OAS38 B C H F VI V NOT: RV/L
 ARC 97-747 OAS38 B C H F VI V NOT: RV/L

ALPHA: 0.000 10.000 20.000

RUDDER: -25.000 -25.000 -25.000

BOF LAP: -11.700 -11.700 -11.700

SPOBRK: 55.000 55.000 55.000

REFERENCE INFORMATION: 2.4210 SQ.FT.
 SREF: 14.2440 IN.
 LREF: 28.1004 IN.
 BREF: 32.3010 IN.
 XMRP: .0000 IN.
 YMRP: 11.2500 IN.
 ZMRP: .0300 IN.
 SCALE

UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUL

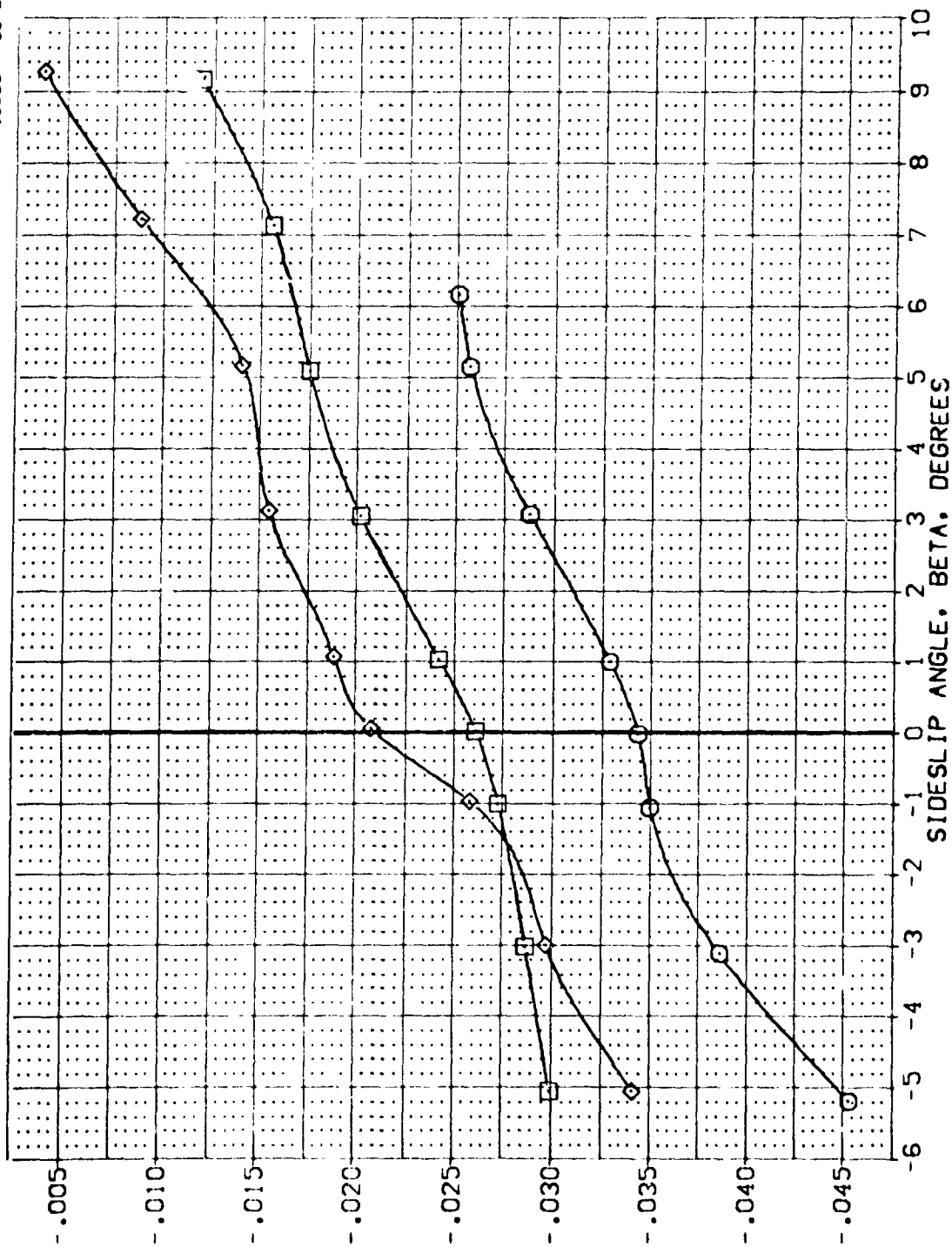



FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
 (A)MACH = 1.60



ALPHA	RUBBER	BDF LAP	SPORAX
.000	-25.000	-11.700	55.000
10.000	-25.000	-11.700	55.000
20.000	-25.000	-11.700	55.000

SCORE	2,4210	SCORE
REF	14,2440	
REF	28,1004	
REF	32,3010	
REF	0000	
REF	0000	
REF	11,2500	
SCORE	11,2500	SCORE

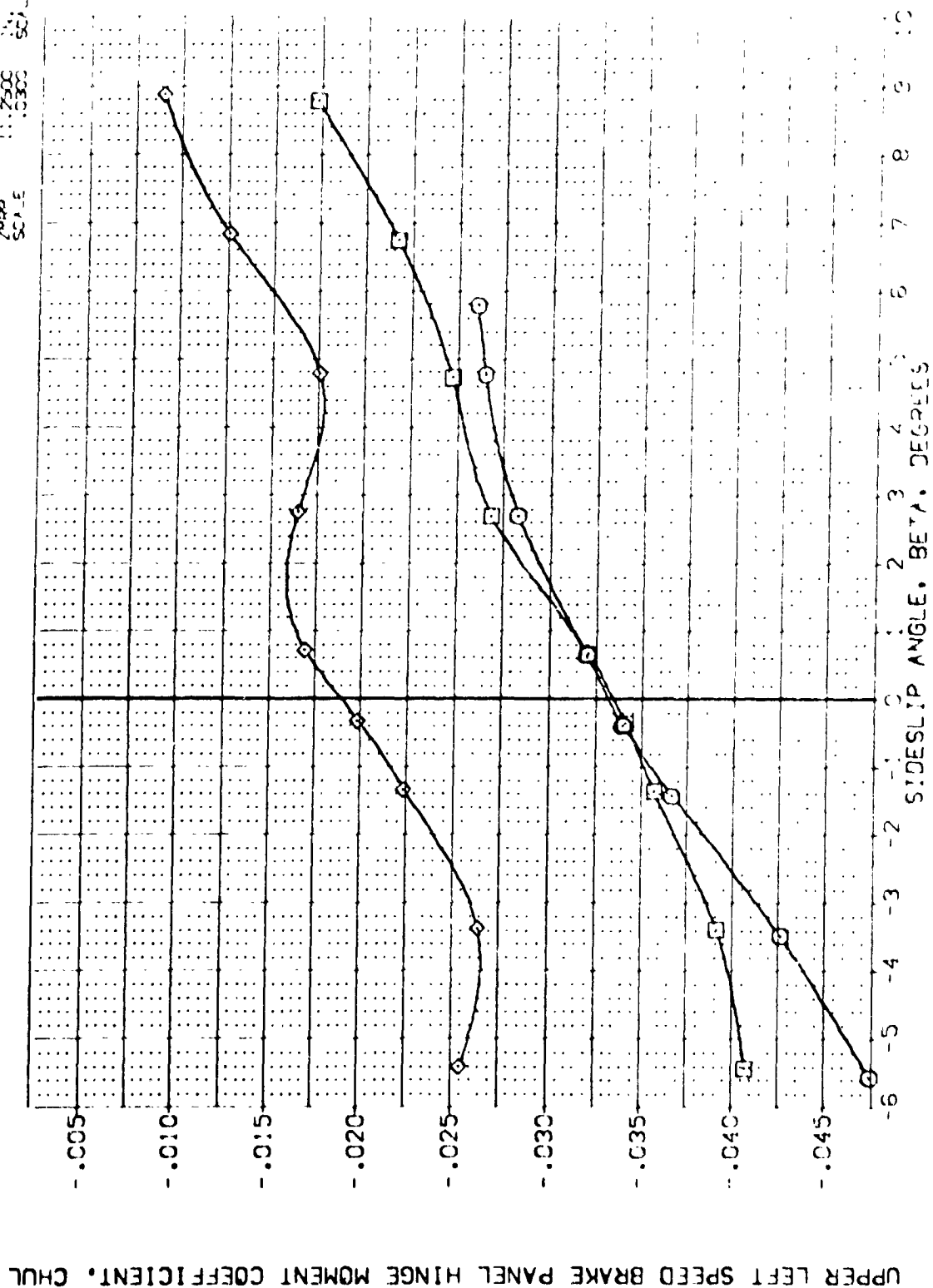


FIG. 51 PUDDER PANEL HINGEMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
CROSS-CH = 2.00
PAGE 522

DATA SET SYMBOL	COEFF	DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
(VEK002)	ARC 97.7	VE K	0.000	-25.000	-11.700	55.000	SREF 2.4210
(VEK013)	ARC 97.7	VE K	10.000	-25.000	-11.700	55.000	LREF 14.2440
(VEK034)	ARC 97.7	VE K	20.000	-25.000	-11.700	55.000	BREF 28.1000
							XMREF 32.3010
							YMREF .0000
							ZMREF .0000
							SCALE 11.2500
							IN. 0.0300
							SCALE

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

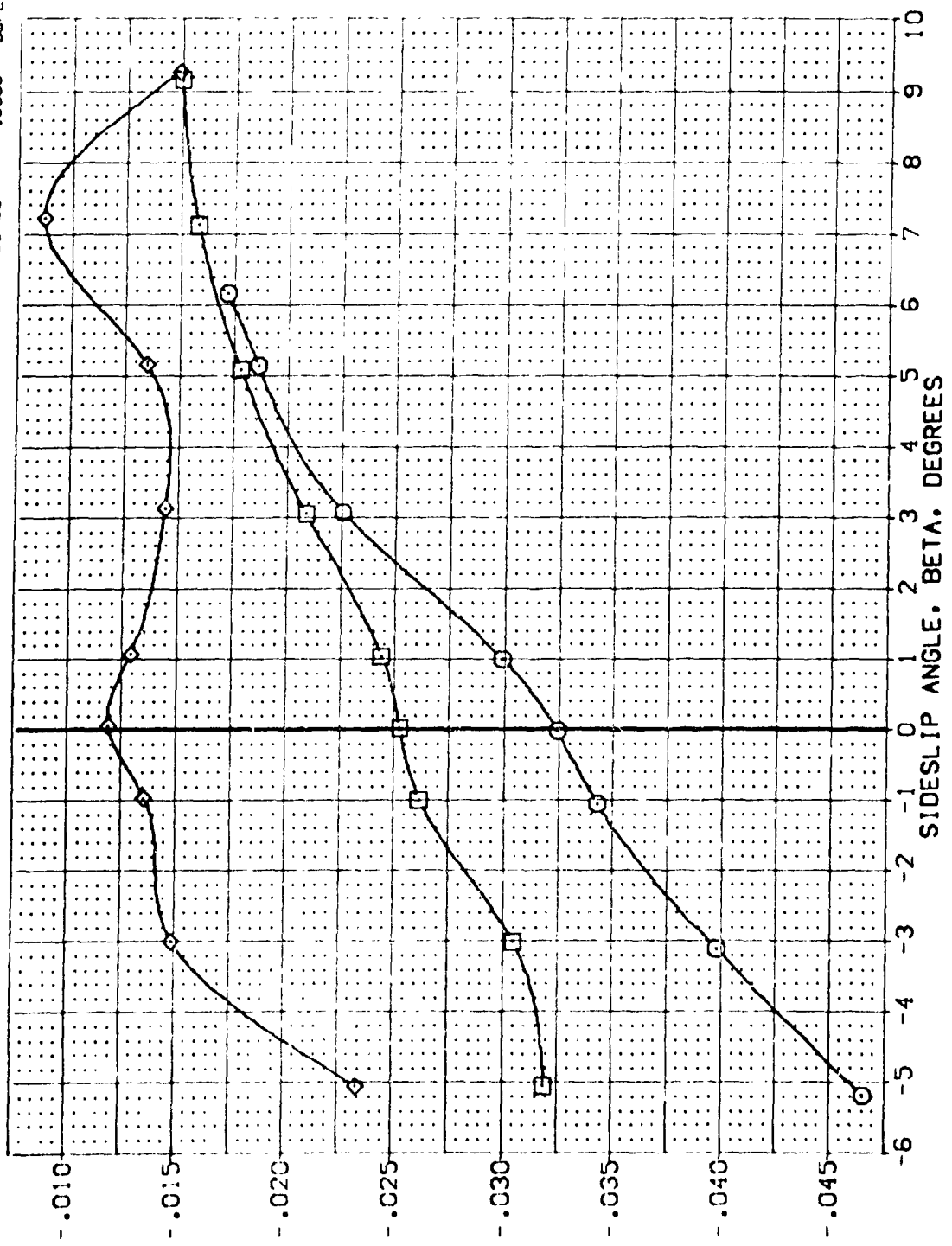


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
 (A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

ARC 97-747 BAS38 B C M F V1 V NOM. RV/L
 ARC 97-747 BAS38 B C M F V1 V NOM. RV/L
 ARC 97-747 BAS38 B C M F V1 V NOM. RV/L

ALPHA RUDDER BOFLAP SPEEDBRK
 .000 -25.000 -11.700 55.000
 10.000 -25.000 -11.700 55.000
 20.000 -25.000 -11.700 55.000

REFERENCE INFORMATION
 SREF 2.4210 50.00
 LREF 14.2440 11.00
 BREF 28.0004 11.00
 XMRP 32.0010 11.00
 YMRP .0000 11.00
 ZMRP 11.2500 11.00
 SCALE .0300

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

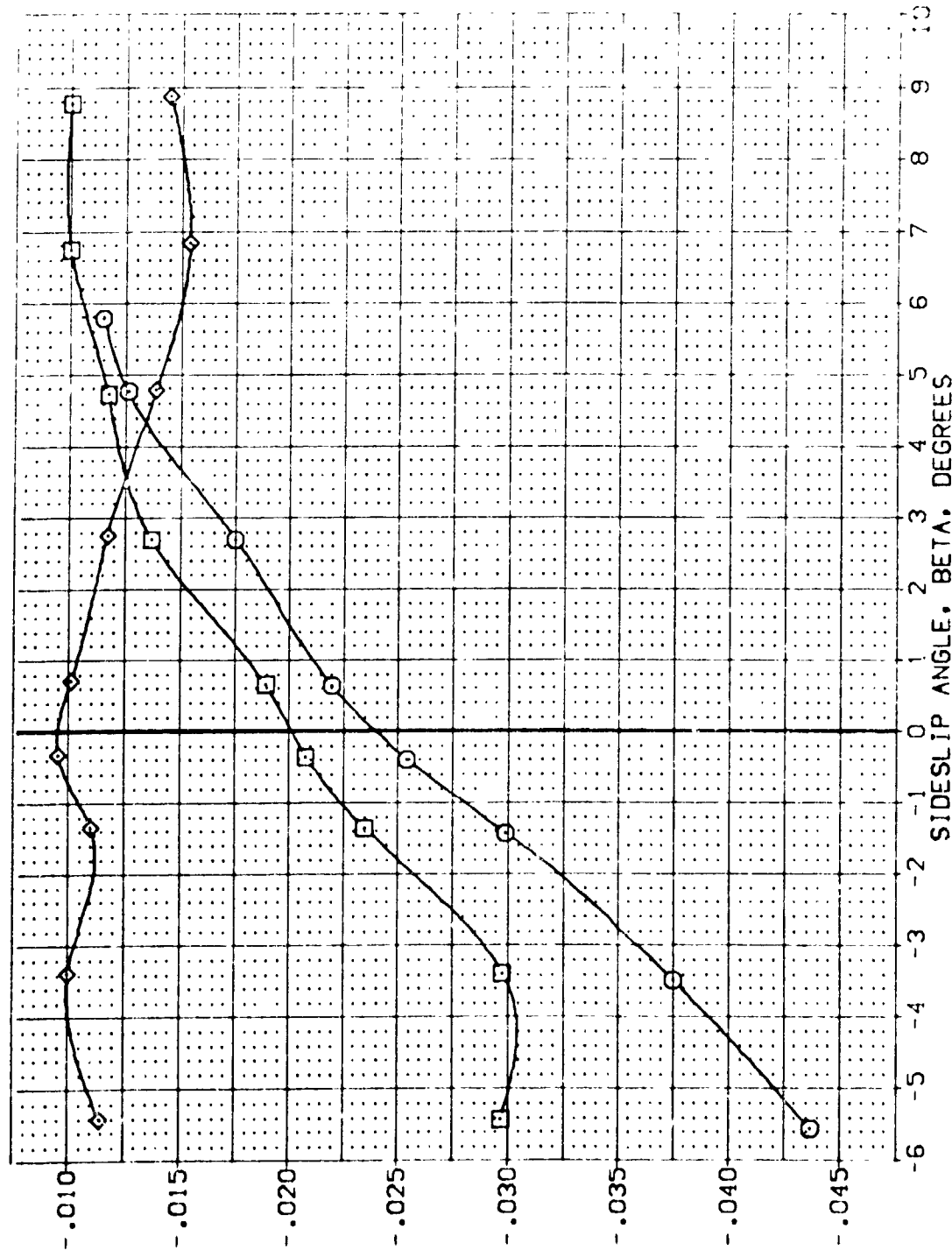



FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
 (B)MACH = 2.00

DATA SET SYMBOL:  CONFIGURATION DESCRIPTION: ARC 97-7.7 QAL33 B C M F V I V NOM. RN/L [VEK032] [VEK033] [VEK034] ARC 97-7.7 QAL33 B C M F V I V NOM. RN/L [VEK032] [VEK033] [VEK034] REFERENCE INFORMATION: SREF 2.4210 SQ.FT. LREF 14.2440 IN. BREF 28.1004 IN. XMRP 32.3010 IN. YMRP .0000 IN. ZMRP 11.2500 IN. SCALE 0.0300

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

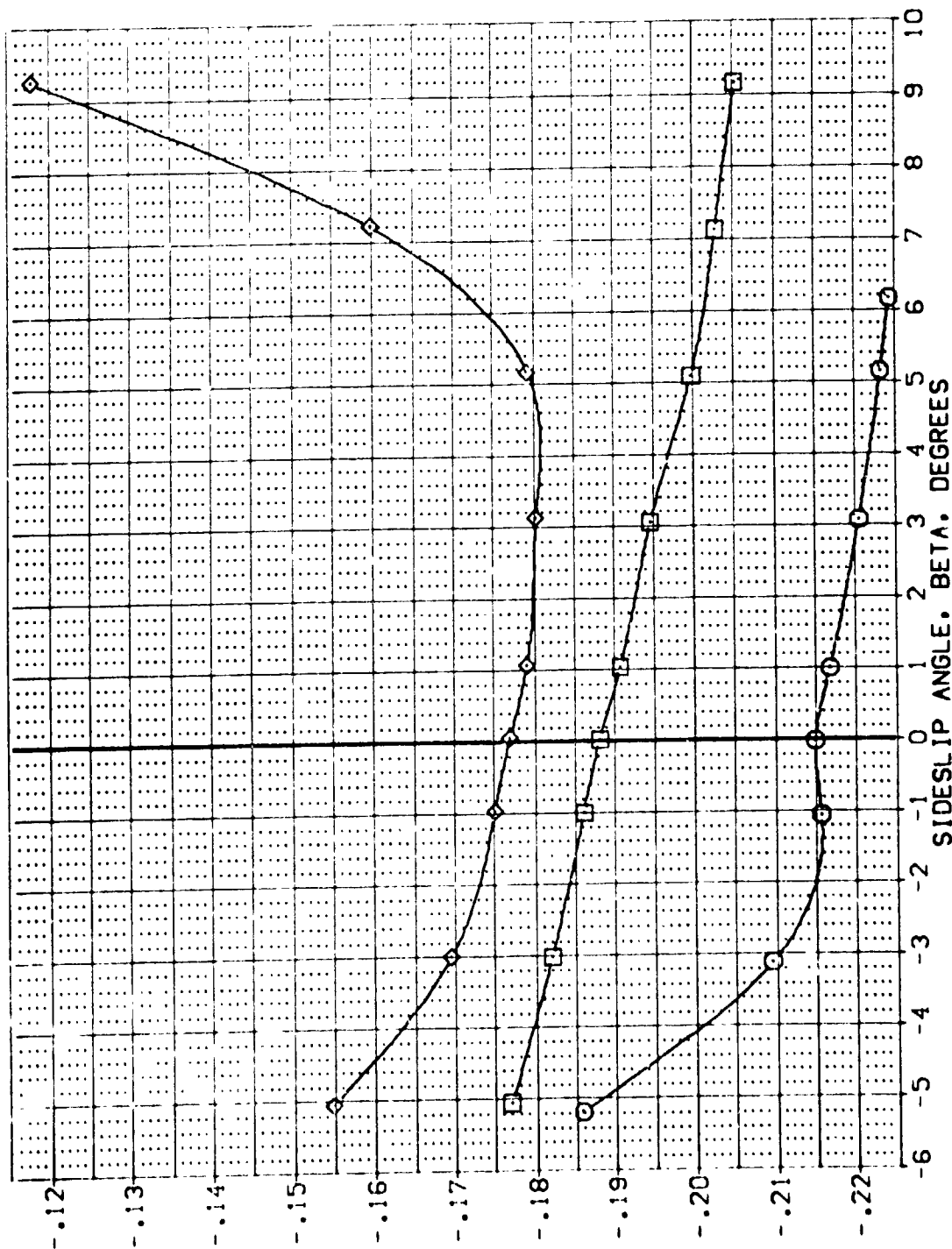



FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
(A)MACH = 1.60

DATA SET SYMBOL:  CONFIGURATION DESCRIPTION:
 { VEM032 } ARC 97-747 OAS38 B C H F VI V NOM: RN/L
 { VEM033 } ARC 97-747 OAS38 B C H F VI V NOM: RN/L
 { VEM034 } ARC 97-747 OAS38 B C H F VI V NOM: RN/L

ALPHA RUDDER BDF LAP SPOBRK REFERENCE INFORMATION:
 0.000 -25.000 -11.700 55.000 SREF 2.4210 50. FT.
 10.000 -25.000 -11.700 55.000 LREF 14.2440 IN.
 20.000 -25.000 -11.700 55.000 XMRP 32.3010 IN.
 YMRP 0.0000 IN.
 ZMRP 11.2500 IN.
 SCALE .0300 SCALE

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

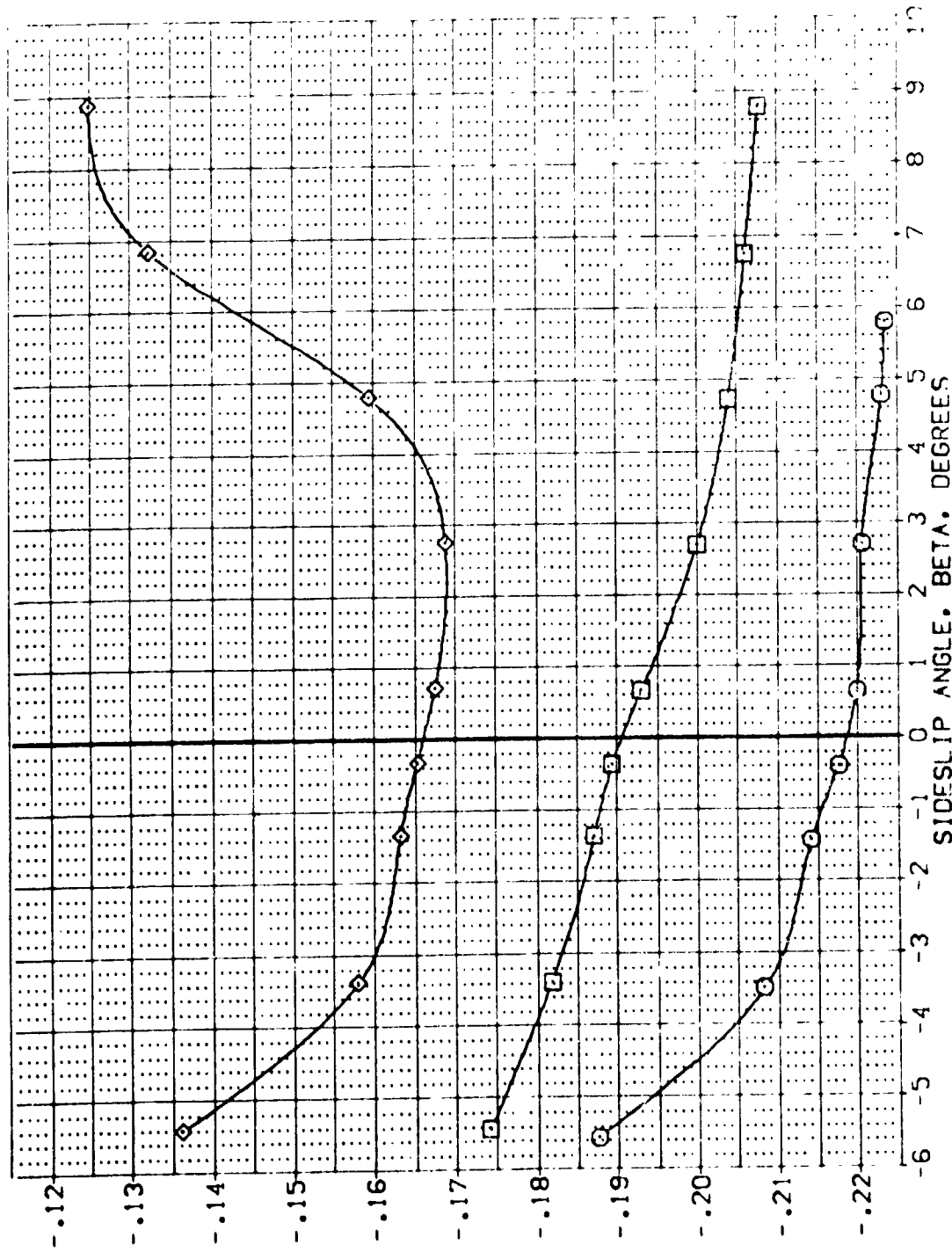


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
 (B) MACH = 2.00



DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	ALPHA	RUDDER	BDFLAP	SPEEDBRAKE	REFERENCE INFORMATION
[YEF032]	ARC 97-747 CAS38	B C M F V1	0.00	-25.000	-11.700	55.000	SREF 2.4210 50. FT.
[YEF033]	ARC 97-747 CAS38	B C M F V1	10.000	-25.000	-11.700	55.000	LREF 14.2440 IN.
[YEF034]	ARC 97-747 CAS38	B C M F V1	20.000	-25.000	-11.700	55.000	BREF 28.1004 IN.
							YMRP 32.3010 IN.
							ZMRP 11.2500 IN.
							SCALE .0300

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CLRR

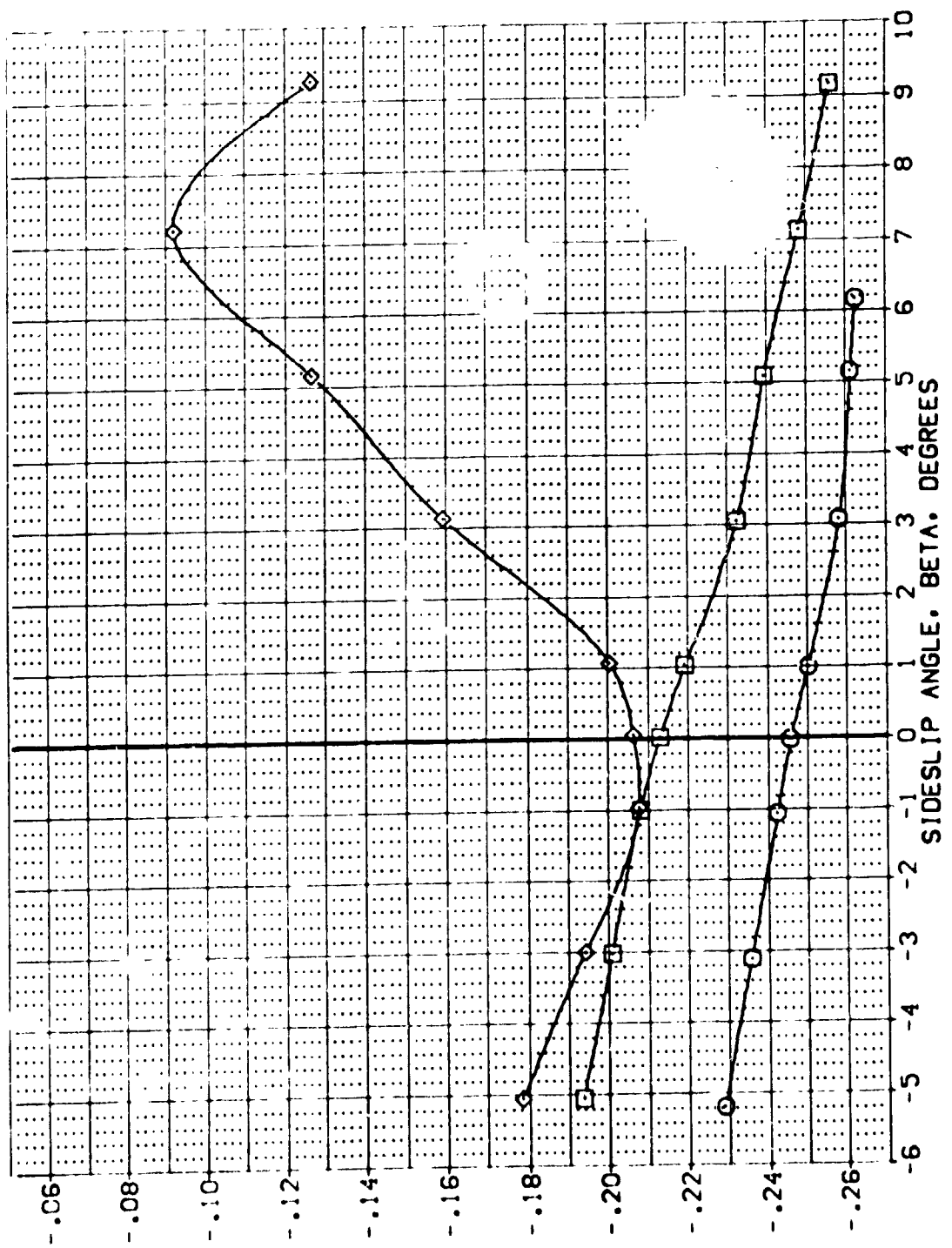


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

ARC 97-747	0A53B B C M F V1	V	NOM: RVUL	ALPHA	RUDDER	SDFLAP	SPEEDBRAKE	SREF	2.4210	50.000
ARC 97-747	0A53B B C M F V1	V	NOM: RVUL	10.000	-25.000	-11.700	55.000	LREF	14.2410	50.000
ARC 97-747	0A53B B C M F V1	V	NOM: RVUL	20.000	-25.000	-11.700	55.000	BREF	28.1004	50.000
								XREF	32.3010	50.000
								YREF	11.7500	50.000
								ZREF	0.0000	50.000
								SCALE	0.0000	50.000

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLR

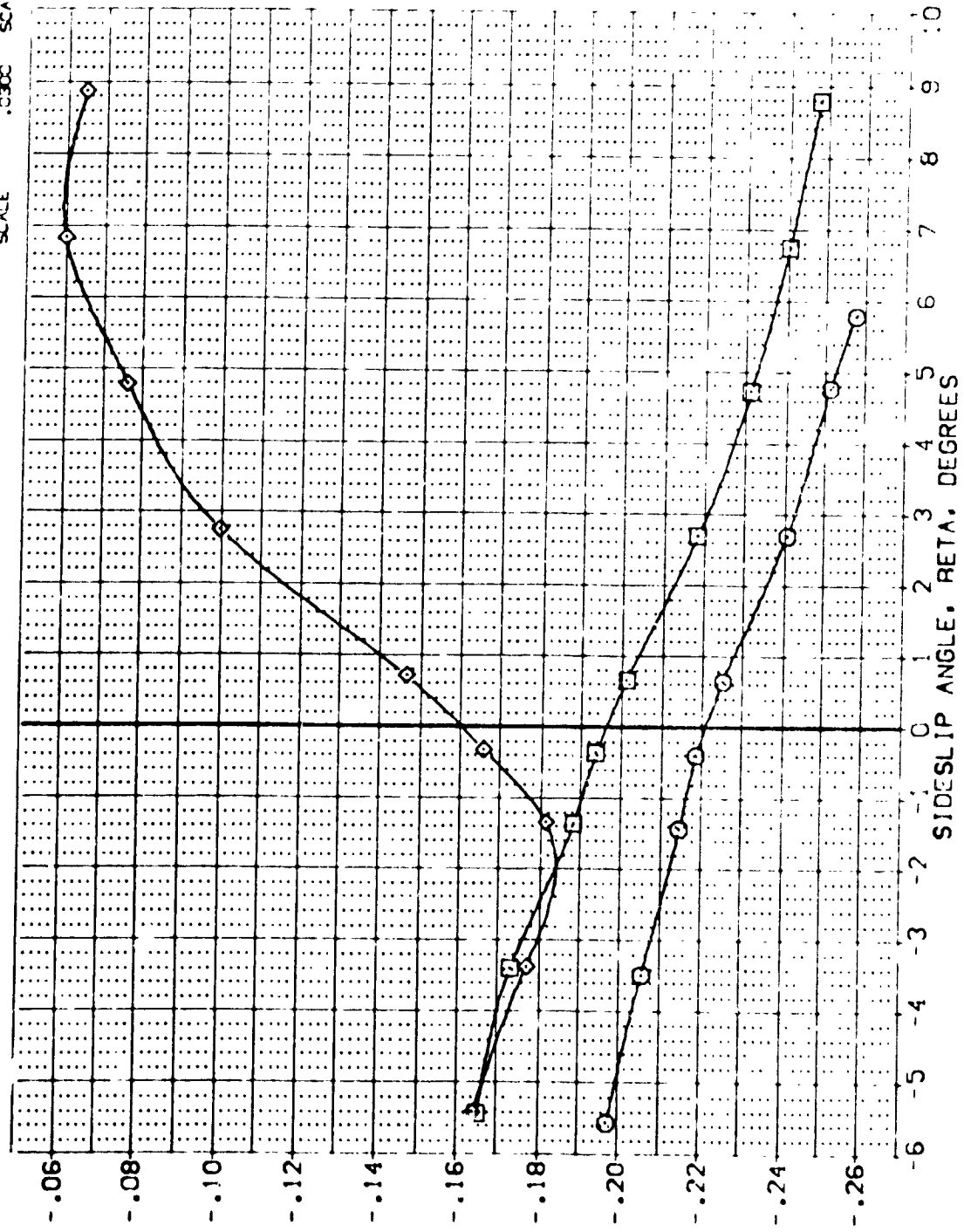


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
 (B)MAC = 2.00

APPENDIX
TABULATED SOURCE DATA

Tabulations of plotted data are available on request from
Data Management Services.

ARC 97-747 0453B B C M F W1 V MOM. RN/L

(REK001) (04 APR 74)

REFERENCE DATA

SREF = 2.4210 IN. FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 SREF = 20.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

BETA = .000 ELEVOM = .000
 ALLCOM = .000 SDFLAP = 22.900
 SPDRK = 99.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 1/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	COF	L/D
1.601	-1.514	-0.55910	.16610	.16450	-0.06330	.01620	598.40000	.12078	.04372	.12242	-0.35596
1.601	-1.146	.00180	.16300	.16300	.00000	.00460	598.40000	.11920	.04380	.11920	.00746
1.601	2.948	.15970	.15920	.15920	.14800	-0.02130	598.40000	.11489	.04331	.12235	.84339
1.601	6.046	.28090	.16230	.15190	.29860	-0.04710	598.40000	.10976	.04214	.14560	1.53935
1.601	9.148	.41230	.21650	.14830	.44120	-0.06820	598.40000	.10480	.04350	.17361	1.90254
1.801	12.260	.53310	.26290	.14380	.57670	-0.08110	598.40000	.09843	.04537	.21864	2.02690
1.601	15.360	.66570	.32760	.13980	.72800	-0.09700	598.40000	.09341	.04639	.26997	2.02555
1.601	16.290	.70060	.34850	.13810	.77020	-0.10150	598.40000	.09138	.04672	.30375	2.30961
1.601	18.470	.78740	.40560	.13520	.87540	-0.10970	598.40000	.08741	.04779	.36024	1.94165
1.601	19.400	.81630	.42940	.13380	.91260	-0.11130	598.40000	.08533	.04847	.38361	1.90142
1.601	21.590	.89880	.49600	.13050	1.01800	-0.11840	598.40000	.08109	.04941	.44999	1.81187
1.601	24.700	1.00400	.60040	.12570	1.16300	-0.12490	598.40000	.07448	.05122	.55364	1.87295
1.601	27.820	1.07500	.70720	.12360	1.28100	-0.11330	598.40000	.06936	.05424	.65918	1.52055
GRADIENT		.04459	.00005	-.00144	.04743	-.00840	.00000	-.00133	-.00010	.00016	.26902

RUN NO. 2/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	COF	L/D
2.002	-1.505	-0.05680	.15380	.15220	-0.06780	.00040	588.90000	.12071	.03149	.12227	-0.36932
2.002	-1.162	.00630	.15090	.15050	-0.00670	-0.00700	588.90000	.11919	.03131	.11921	-0.04169
2.002	2.925	.10860	.15160	.14590	.11620	-0.02450	588.90000	.11490	.03100	.12068	.71620
2.002	6.010	.22270	.16550	.14120	.23880	-0.04130	588.90000	.11022	.03098	.134624	1.54624
2.002	9.097	.33360	.19000	.13480	.35950	-0.05440	588.90000	.10449	.03031	.16001	1.75665
2.002	12.190	.44360	.22750	.12880	.48160	-0.06210	588.90000	.09850	.03030	.19797	1.94889
2.002	15.300	.55630	.28210	.12480	.61300	-0.06990	588.90000	.09294	.03186	.25140	1.97902
2.002	18.390	.66740	.34960	.12110	.74360	-0.07810	588.90000	.08805	.03305	.31815	1.90959
2.002	21.500	.77460	.43130	.11760	.87880	-0.08820	588.90000	.08311	.03449	.39940	1.79503
2.002	24.590	.87240	.52340	.11280	1.01100	-0.09870	588.90000	.07633	.03647	.49010	1.66716
2.002	27.700	.96790	.62770	.10580	1.14500	-0.10810	588.90000	.06849	.03731	.59474	1.54216
GRADIENT		.03732	-.00035	-.00143	.03993	-.00563	.00000	-.00133	-.00011	-.00021	.24512

TABULATED SOURCE DATA - 04538

PAGE 2

ARC 97-747 QASB B C M F W1 V NOM. RW/L

(04 APR 74)
(REK002)

REFERENCE DATA

REF =	2.4210 36.87.	XMRP =	32.3010 IN.
REF =	14.2440 IN.	YMRP =	.0000 IN.
REF =	20.1004 IN.	ZMRP =	11.2500 IN.
SCALE =	.0009 SCALE		

BETA	=	.000	ELEVON	=	-10.000
AILRON	=	.000	BDFLAP	=	-11.700
SPOBRK	=	55.000	RUDDER	=	.000
ELEV-L	=	-10.000	ELEV-R	=	-10.000

PARAMETRIC DATA

RUN NO. 3/0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	CL	CD	CA	CN	CLMPW0	Q	CAF	CAB	CDF	L/D
-1.495	-1.5160	-1.5690	-1.6280	-1.5590	.09050	590.00000	.12441	.03939	.12843	-1.90680
-1.446	-1.4620	-1.5120	-1.5690	-.09170	.07960	590.00000	.12208	.03882	.12232	-.56654
-1.248	-0.4950	-1.5780	-1.5780	-.05760	.03580	590.00000	.11543	.03957	.11824	.31410
6.048	-1.8690	-1.6730	-1.4660	.20350	.03410	590.00000	.10773	.03887	.12898	1.11778
9.174	-3.1970	-1.9360	-1.4030	.34650	.01505	590.00000	.10008	.04022	.15405	1.65007
12.250	-4.4550	-2.3350	-1.3560	.48480	.00660	590.00000	.09284	.04153	.19284	1.90820
15.360	-5.7200	-2.8860	-1.2660	.62880	-.01020	590.00000	.08322	.04338	.24680	1.98452
18.480	-6.6990	-3.3580	-1.1890	.76710	-.01620	590.00000	.07385	.04505	.31319	1.93824
21.590	-6.0400	-4.3790	-1.1140	.90870	-.02040	590.00000	.06500	.04640	.39481	1.83572
24.710	-9.0770	-5.3350	-1.0350	1.04800	.02390	590.00000	.05640	.04890	.48933	1.70122
27.820	-9.8110	-6.3070	-1.0000	1.16200	.03090	590.00000	.05039	.04961	.58687	1.55535
GRADIENT	-0.0188	-0.0188	-.00178	.04859	-.00779	.00000	-.00204	.00026	-.00212	.27687

4/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	CL	CD	CA	CN	CLMFD	μ	CAF	CAB	CDF	L/D
-1.528	-1.2440	.15320	.14580	-.12850	.05410	585.20000	.12214	.02766	.12553	-.81254
-.155	-.07680	.14670	.14850	-.07300	.04740	585.20000	.11874	.02776	.11894	-.49492
2.928	.04290	.14320	.14090	.05020	.03220	585.20000	.11218	.02872	.11459	.25967
6.026	.15820	.15070	.13350	.17120	.01820	585.20000	.10562	.02788	.12301	1.03632
9.103	.26480	.17030	.12630	.28840	.00840	585.20000	.09771	.02859	.14211	1.55448
12.190	.37400	.20300	.11950	.40830	.00460	585.20000	.09035	.02895	.17477	1.84208
15.300	.48430	.24990	.11330	.53300	.00080	585.20000	.08242	.03088	.22014	1.95740
21.500	.69670	.38300	.10110	.78860	-.00820	585.20000	.06725	.03385	.35159	1.81657
24.620	.79710	.46770	.09320	.91950	-.01360	585.20000	.05788	.03532	.43568	1.70393
27.710	.88930	.56110	.08200	1.04800	-.01570	585.20000	.04874	.03446	.53046	1.58496
GRADIENT	.03753	-.00206	-.00197	.04008	-.00492	.00000	.00222	.00925	-.00283	.25597

DATE 10 JUL 74

TABULATED SOURCE DATA - QAS38

PAGE 3

ARC 97-747 QAS38 B C M F W I V MOM. RN/L

(REK003) (04 APR 74)

REFERENCE DATA

SREF = 2.4210 50. FT XMRP = 32.301 J IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 26.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0399 SCALE

BETA = .000 ELEVON = 15.000
 AILRON = .000 BDFLAP = -11.700
 SPOBRK = 95.000 RUDDER = .000
 ELEV-L = 15.000 ELEV R = 15.000

PARAMETRIC DATA

RUN NO. 10/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
1.601	-1.465	-.06330	.17300	.17360	-.00970	-.01490	587.60000	.12798	.04362	.12819	-.03026
1.601	-1.185	.05140	.17280	.17280	.05080	-.02480	587.60000	.12742	.04338	.12726	.29749
1.601	1.367	.11410	.17290	.17290	.11820	-.03480	587.60000	.12495	.04325	.12773	.65968
1.601	3.424	.20540	.17330	.16670	.21370	-.04540	587.60000	.12184	.04486	.13450	1.14543
1.601	5.498	.29630	.19190	.18260	.31340	-.06500	587.60000	.11916	.04344	.14864	1.54461
1.601	7.557	.38470	.21290	.16040	.40930	-.07930	587.60000	.11627	.04413	.16909	1.80727
1.601	9.625	.46930	.24030	.15840	.50280	-.09180	587.60000	.11297	.04343	.19545	1.95322
1.601	12.720	.59110	.29120	.13390	.64070	-.10450	587.60000	.10797	.04593	.24639	2.02986
1.601	15.830	.71960	.35890	.14830	.79020	-.12060	587.60000	.10321	.04569	.31485	2.00556
1.601	18.940	.83960	.43370	.14240	.93660	-.13150	587.60000	.09643	.04597	.39521	1.91404
1.601	22.050	.94530	.53140	.13600	1.08000	-.14010	587.60000	.08982	.04618	.46870	1.78729
1.601	25.170	1.05800	.64440	.13340	1.23100	-.14820	587.60000	.08431	.04909	.59986	1.64117
1.601	29.110	1.16590	.79690	.12990	1.40600	-.14370	587.60000	.07715	.05235	.75141	1.46197
GRADIENT		.04287	.05113	-.00145	.04568	-.00699	.00000	-.00131	-.00015	.00130	.23942

RUN NO. 9/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
2.002	-1.476	-.02330	.15720	.15650	-.02740	-.01890	560.40000	.12508	.03142	.12574	-.14864
2.002	-.802	.02270	.15510	.15520	.02210	-.02490	560.40000	.12342	.03178	.12334	.14600
2.002	1.341	.07830	.15590	.15360	.08190	-.03230	560.40000	.12203	.03157	.12391	.50351
2.002	3.387	.15210	.16100	.15180	.16140	-.04190	560.40000	.12008	.03172	.12941	.94462
2.002	5.446	.22430	.17150	.14940	.23960	-.05180	560.40000	.11728	.03212	.13949	1.30836
2.002	7.501	.29790	.18690	.14640	.31970	-.05990	560.40000	.11489	.03151	.15564	1.59380
2.002	9.552	.36980	.20770	.14340	.39910	-.06610	560.40000	.11144	.03196	.17612	1.78083
2.002	12.650	.47860	.25020	.13940	.52180	-.07280	560.40000	.10634	.03306	.21803	1.91222
2.002	15.750	.59230	.30710	.13480	.65340	-.08100	560.40000	.10156	.03324	.27511	1.92863
2.002	18.840	.69980	.37550	.12950	.78350	-.08960	560.40000	.09704	.03246	.34485	1.86302
2.002	21.940	.80440	.45600	.12420	.91730	-.09000	560.40000	.09159	.03261	.42769	1.75669
2.002	25.040	.90730	.55630	.12000	1.05800	-.11270	560.40000	.08543	.03457	.52520	1.63115
2.002	29.970	1.02500	.69480	.11140	1.23300	-.12540	560.40000	.07653	.03487	.66416	1.47319
GRADIENT		.03606	.00084	-.00097	.03882	-.00473	.00000	-.00101	.00004	.00083	.22503

ARC 87-747 04538 B C M F W1 V MOM. RN/L

(REK004) (04 APR 74)

REFERENCE DATA

BREF = 2.4210 88.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRFP = 28.1004 IN. ZMRP = 11.2300 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = 5.000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEV-L = 5.000 ELEV-R = -5.000

RUN NO. 6/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
1.600	-1.504	-.08830	.16010	.15770	-.09240	.04760	592.80000	.11786	.03984	.12025	-.55110
1.600	-1.198	-.03070	.15590	.15260	-.03120	.03710	592.80000	.11598	.03982	.11609	-.15666
1.600	1.366	.04190	.15370	.15260	.04560	.02410	592.80000	.11298	.03962	.11404	.27303
1.600	3.415	.13200	.15670	.14850	.14110	.00980	592.80000	.10950	.03900	.11771	.84271
1.600	5.488	.22300	.16660	.14450	.23790	-.00470	592.80000	.10541	.03909	.12768	1.35856
1.600	7.589	.31320	.17460	.14170	.33490	-.01830	592.80000	.10184	.03986	.14518	1.69612
1.500	9.636	.39510	.20730	.13830	.42420	-.02780	592.80000	.09759	.04071	.16721	1.90526
1.600	12.710	.51420	.23220	.13290	.55710	-.03820	592.80000	.09570	.04220	.21104	2.03877
1.600	15.650	.64190	.31430	.12710	.70330	-.04990	592.80000	.08297	.04413	.27190	2.04160
GRADIENT	.04492	-.00065	-.00190	.04760	-.00772	.00000		-.00172	-.00017	-.00047	.28497

RUN NO. 5/ 0 RN/L = 2.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
2.002	-1.498	-.07930	.14790	.14580	-.08310	.02400	574.90000	.11674	.02906	.11987	-.53582
2.002	-.203	-.03050	.14400	.14390	-.03100	.01760	574.90000	.11477	.02913	.11488	-.21172
2.002	1.323	.02310	.14210	.14160	.02640	.01040	574.90000	.11219	.02941	.11277	.16265
2.002	3.373	.05900	.14490	.13680	.10740	.00120	574.90000	.10897	.02583	.11310	.68366
2.002	5.441	.17370	.15160	.13440	.18750	-.00430	574.90000	.10523	.02917	.12252	1.14620
2.002	7.493	.24340	.16440	.13100	.26470	-.01590	574.90000	.10160	.02940	.13525	1.49244
2.002	9.581	.31910	.18240	.12680	.34500	-.02070	574.90000	.09710	.02970	.15317	1.74884
2.002	12.650	.42670	.21940	.12060	.46440	-.02440	574.90000	.09031	.03029	.18802	1.94516
2.002	15.730	.53660	.27000	.11440	.58970	-.02940	574.90000	.08337	.03103	.24012	1.98752
2.002	18.860	.64340	.33610	.10940	.71940	-.03500	574.90000	.07691	.03249	.30533	1.92043
2.002	21.950	.74740	.41250	.10360	.84750	-.04120	574.90000	.07000	.03360	.38171	1.81555
2.002	25.070	.84750	.50240	.09690	.95100	-.04910	574.90000	.06186	.03504	.47171	1.68344
2.002	28.990	.96390	.63090	.08470	1.14900	-.05560	574.90000	.05511	.03459	.60070	1.52781
GRADIENT	.03647	-.00057	-.00144	.03897	-.00467	.00000		-.00160	.00016	-.00073	.25002

ARC 97-747 OA53B B C M F W MOM. RN/L

(REK005) (04 APR 74)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1000 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = -10.000
 AILRON = 5.000 BDFLAP = -11.700
 SPURK = 55.000 RUDDER = .000
 ELEV-L = -5.000 ELEV-R = -15.000

RUN NO. 8/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
1.600	-1.469	-1.1440	.16760	.15390	-.14860	.06810	591.00000	.12570	.03820	.12947	-.86099
1.600	-1.469	-1.1440	.16760	.15390	-.14860	.06810	591.00000	.12570	.03820	.12947	-.86099
1.600	-1.191	-.5850	.16210	.16180	-.08710	.07770	591.00000	.12313	.03867	.12342	-.53403
1.600	1.353	-.01620	.15920	.15850	-.01240	.06600	591.00000	.11999	.03851	.11966	-.10204
1.600	3.419	.07330	.15860	.15400	.08460	.05060	591.00000	.11541	.03859	.12023	.47405
1.600	5.486	.16690	.16550	.14890	.16220	.03560	591.00000	.11034	.03846	.12724	1.00852
1.600	7.550	.25330	.16010	.14490	.27770	.02170	591.00000	.10538	.03952	.14095	1.42260
1.600	9.616	.34220	.20070	.15070	.37100	.00970	591.00000	.10050	.04070	.16057	1.70548
1.600	12.720	.45770	.24200	.13390	.50970	-.00340	591.00000	.09154	.04236	.20152	1.92597
1.600	15.830	.59290	.29940	.12630	.63210	-.01350	591.00000	.08204	.04426	.25662	1.98040
1.600	18.940	.70910	.36890	.11880	.74050	-.01940	591.00000	.07300	.04580	.32563	1.92207
1.600	22.050	.81970	.45290	.11200	.92970	-.02310	591.00000	.06419	.04781	.40832	1.81006
1.600	25.170	.92380	.55570	.10560	1.07000	-.02670	591.00000	.05574	.04986	.50532	1.67709
1.600	29.090	1.01900	.68050	.09940	1.22100	-.03100	591.00000	.04731	.05209	.62497	1.45694
GRADIENT		.04497	-.00175	-.00205	.04774	-.00765	.00000	-.00210	.00006	-.05182	.27423

RUN NO. 7/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
2.002	-1.466	-.12250	.15150	.14830	-.12630	.05400	572.00000	.12173	.02657	.12492	-.80844
2.002	-1.466	-.12250	.15150	.14830	-.12630	.05400	572.00000	.12173	.02657	.12492	-.80844
2.002	-1.208	-.07380	.14620	.14600	-.07440	.04770	572.00000	.11896	.02704	.11923	-.50502
2.002	1.337	-.01610	.14260	.14300	-.01280	.04010	572.00000	.11565	.02735	.11532	-.11309
2.002	3.390	.08140	.14330	.13940	.06970	.02990	572.00000	.11169	.02771	.11562	.42809
2.002	5.445	.13630	.14860	.13500	.14980	.02060	572.00000	.10681	.02819	.12054	.91729
2.002	7.504	.21070	.15980	.13090	.22980	.01200	572.00000	.10227	.02863	.13141	1.31884
2.002	9.563	.28280	.17450	.12510	.30770	.00760	572.00000	.09691	.02819	.14658	1.61990
2.002	12.660	.39230	.20900	.11800	.42850	.00350	572.00000	.08963	.02837	.18136	1.87626
2.002	15.750	.50280	.25900	.11280	.55430	-.00120	572.00000	.08165	.03115	.22904	1.94140
2.002	18.850	.60850	.32090	.10710	.67950	-.00520	572.00000	.07441	.03269	.28996	1.89610
2.002	21.940	.71010	.39440	.10050	.80610	-.01030	572.00000	.06853	.03397	.36290	1.80039
2.002	25.050	.80940	.48090	.09290	.95680	-.01540	572.00000	.05741	.03549	.44866	1.68330
2.002	28.950	.92250	.60270	.08100	1.09900	-.01790	572.00000	.04595	.03503	.57217	1.33016
GRADIENT		.03760	-.00164	-.00164	.04129	-.00496	.00000	-.00207	.00023	-.00186	.25506

ARC 97-747 04538 B C M F W L V MON. RN/L

(REK006) (04 APR 74)

REFERENCE DATA

PARAMETRIC DATA

BREF = 2.4210 80.FT. YMRP = 32.3010 IN.
 LBREF = 14.2440 IN. YMRP = .0000 IN.
 BRFP = 20.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

BETA = .000 ELEVON = 7.500
 AIRRON = -7.500 BOFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = 15.000

RUN NO. 12/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFW	Q	CAF	CAB	CDF	L/D
1.000	-1.481	-0.04850	.16610	.16480	-.03280	.01630	588.80000	.12223	.04237	.12333	-.29211
1.000	-1.189	.00630	.16340	.16340	.00580	-.00680	588.80000	.12082	.04238	.12080	.03680
1.000	1.360	.07440	.16270	.16090	.07820	-.00450	588.80000	.11854	.04236	.12036	.43700
1.000	3.423	.16630	.16730	.15710	.17600	-.01940	588.80000	.11507	.04203	.12337	.99389
1.000	5.439	.23750	.17820	.15270	.27340	-.03420	588.80000	.11148	.04122	.13712	1.44562
1.000	7.564	.34720	.19740	.15000	.37010	-.04850	588.80000	.10842	.04158	.15620	1.75842
1.000	9.621	.43030	.22180	.14670	.46130	-.05840	588.80000	.10476	.04194	.18038	1.94559
1.000	12.720	.55410	.27080	.14210	.60010	-.07130	588.80000	.09319	.04231	.22889	2.04650
1.000	15.830	.68020	.33540	.12710	.74590	-.08480	588.80000	.08307	.04403	.29301	2.03625
1.000	18.940	.80420	.41420	.13060	.89310	-.09340	588.80000	.08493	.04567	.37086	1.94233
1.000	22.050	.91350	.50450	.12480	1.03600	-.10100	588.80000	.07895	.04555	.46211	1.71590
1.000	25.170	1.01600	.61050	.12060	1.17900	-.10600	588.80000	.07259	.04801	.56713	1.56359
1.000	28.130	1.11700	.75490	.11570	1.34300	-.09710	588.80000	.06334	.05236	.72910	1.47356
GRADIENT	.04386	.00028	-.00159	.04671	-.00728	.00000		-.00148	-.00012	.00042	.26298

RUN NO. 11/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFW	Q	CAF	CAB	CDF	L/D
2.002	-1.480	-.05150	.15170	.15030	-.03540	.00210	565.80000	.12512	.03018	.12149	-.33952
2.002	-.202	-.00670	.14900	.14900	-.00720	-.00350	565.80000	.11372	.03028	.11874	-.00475
2.002	1.336	.04960	.14820	.14700	.03310	-.01140	565.80000	.11533	.03067	.11753	.32504
2.002	3.391	.12620	.15210	.14430	.13490	-.02110	565.80000	.11390	.03040	.12168	.82565
2.002	5.447	.19880	.16090	.14130	.21320	-.03030	565.80000	.11049	.03081	.13023	1.23570
2.002	7.498	.27030	.17490	.13810	.29080	-.03790	565.80000	.10766	.03044	.14469	1.54571
2.002	9.556	.34330	.19450	.13480	.37090	-.04360	565.80000	.10341	.03139	.16355	1.76540
2.002	12.650	.45170	.23370	.12910	.49150	-.04870	565.80000	.09762	.03148	.20299	1.91235
2.002	15.750	.56370	.28830	.12400	.62270	-.05530	565.80000	.09166	.03234	.25723	1.96188
2.002	18.850	.67470	.35590	.11880	.75350	-.06240	565.80000	.08577	.03303	.32462	1.83589
2.002	21.940	.77610	.43490	.11340	.88240	-.07030	565.80000	.08005	.03315	.41395	1.72467
2.002	25.040	.87690	.52800	.10730	1.01800	-.08090	565.80000	.07271	.03415	.45675	1.66754
2.002	28.930	.99210	.66030	.09710	1.18800	-.08770	565.80000	.06259	.03431	.62981	1.50274
GRADIENT	.03667	.00013	-.00125	.03926	-.00482	.00000		-.00131	.00006	.00007	.24172

ARC 97-747 QAS38 B C M F W1 V HIGH RN/L

(REK007) (04 APR 74)

REFERENCE DATA

SREF = 2.4212 36.FT. XMRP = 32.3010 IN. BETA = .000 ELEVON = 15.000
 LREF = 14.2445 IN. YMRP = .0000 IN. AIRLON = .000 BDFLAP = 16.300
 SREF = 28.1004 IN. ZMRP = 11.2500 IN. SPCBRK = 55.000 RUOGR = .000
 SCALE = .0300 SCALE ELEV-L = 15.000 ELEV-P = 15.000

PARAMETRIC DATA

RUN NO. 14/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
1.001	-1.500	.01760	.17190	.17250	.01310	-.04110	927.20000	.13050	.04172	.13019	.15256
1.001	-1.500	.07330	.17100	.17130	.07270	-.05050	927.20000	.12934	.04196	.12909	.14267
1.001	-1.500	.17460	.17340	.16980	.14800	-.06350	927.20000	.12764	.04216	.13123	.103408
1.001	-1.400	.33820	.18160	.15880	.24800	-.08030	927.20000	.12400	.04192	.13379	.131142
1.001	-1.295	.53390	.19760	.15410	.35150	-.09850	927.20000	.12246	.04164	.13515	.158951
1.001	7.704	.42370	.22130	.16290	.45160	-.11150	927.20000	.12060	.04222	.13013	.151777
1.001	9.010	.31650	.26340	.16170	.58200	-.13070	927.20000	.11804	.04366	.12016	.203791
1.001	12.990	.14800	.35170	.15810	.72150	-.14800	927.20000	.11411	.04359	.12687	.257870
1.001	16.160	.07660	.36550	.15510	.85370	-.16410	927.20000	.10901	.04503	.12421	.250945
1.001	19.340	.00960	.47550	.15110	1.00500	-.17520	927.20000	.10260	.04860	.12964	.188942
1.001	22.930	1.01100	.59030	.14070	1.15600	-.18520	927.20000	.09115	.05165	.13259	.174187
1.001	25.760	1.11800	.72880	.14710	1.31200	-.19560	927.20000	.08290	.05460	.13951	.159061
1.001	29.730	1.22000	.85920	.14060	1.48600	-.19940	927.20000	.08370	.05710	.14061	.142061
GRADIENT		.04420	.06201	-.10010	.04728	-.100769	.00000	-.00114	.00004	.00198	.24257

RUN NO. 13/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
2.002	-1.510	-.00400	.15600	.15380	-.00810	-.04010	865.30000	.12490	.03090	.12507	-.02559
2.002	-.210	.04190	.15450	.15470	.04150	-.04620	865.30000	.12374	.03096	.12358	.27104
2.002	1.332	.09820	.15620	.15390	.10180	-.05440	865.30000	.12259	.03131	.12432	.62855
2.002	3.407	.17530	.16280	.15210	.18480	-.06580	865.30000	.12067	.03143	.13143	1.07752
2.002	5.923	.25120	.17490	.14990	.26680	-.07740	865.30000	.11821	.03169	.14334	1.43652
2.002	7.601	.32760	.19200	.14700	.35010	-.08750	865.30000	.11655	.03045	.16183	1.70599
2.002	9.691	.40070	.21490	.14440	.43120	-.09460	865.30000	.11378	.03062	.16474	1.86455
2.002	12.840	.51640	.26170	.14040	.56170	-.10430	865.30000	.10865	.03175	.20076	1.97334
2.002	16.010	.63340	.32450	.13720	.69830	-.11580	865.30000	.10483	.03037	.29316	1.93201
2.002	19.170	.74670	.40270	.13350	.83750	-.12860	865.30000	.10092	.03438	.37034	1.83356
2.002	22.330	.85450	.49450	.13270	.97850	-.14150	865.30000	.09758	.03312	.46196	1.72824
2.002	25.500	.96030	.60150	.12960	1.12600	-.15820	865.30000	.09207	.03753	.56785	1.59626
2.002	29.500	1.08300	.75050	.12000	1.31200	-.17650	865.30000	.08275	.03725	.71808	1.44279
GRADIENT		.03663	.00146	-.00073	.03926	-.00525	.00000	-.00085	.00012	.00136	.22457

ARC 97-747 04536 B C M F W1 V NOM. RN/L

(REK000) (04 APR 74)

REFERENCE DATA

XREF = 2.4215 30.FT. XMRP = 32.3910 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 ZREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0311 SCALE

RUM NO. 18/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

MACH	ALPHA	CL	CD	CA	CN	CLMFWC	Q	CAF	CAB	COF	L/D
1.000	-1.484	.01810	.17500	.17340	.01480	-.04270	585.40000	.12431	-.04109	.13389	.10938
1.000	-.198	.07830	.17450	.17480	.07770	-.03370	585.40000	.13339	.04141	.13312	.44865
1.000	1.300	.14440	.17610	.17260	.14860	-.06500	585.40000	.13110	-.04150	.13459	.82044
1.000	3.408	.23590	.18440	.17000	.24650	-.08150	585.40000	.12850	.04150	.14293	1.27953
1.000	5.472	.33040	.19950	.16710	.34850	-.09920	585.40000	.12637	.04073	.15898	1.63634
1.000	7.532	.42170	.22340	.16800	.44740	-.11610	585.40000	.12436	.04164	.18208	1.88735
1.000	9.628	.50750	.25280	.16450	.54260	-.12950	585.40000	.12179	-.04251	.21082	2.00794
1.000	12.725	.63220	.30880	.16250	.68470	-.14670	585.40000	.11835	.04365	.26521	2.04746
1.000	15.860	.76360	.38250	.15950	.83910	-.16510	585.40000	.11427	.04503	.33924	1.99613
1.000	18.970	.88460	.47530	.15720	.98950	-.17800	585.40000	.10938	.04782	.42510	1.88536
1.000	22.080	.99250	.57160	.15550	1.13750	-.18320	585.40000	.10350	.05050	.52471	1.74133
1.000	25.230	1.10200	.68980	.15430	1.29150	-.19840	585.40000	.10572	.05358	.64140	1.59750
1.000	28.140	1.20300	.84190	.14950	1.46150	-.19440	585.40000	.09421	.05169	.79371	1.48957
GRADIENT		.04412	.00194	-.00115	.04721	-.00786	.00000	-.00122	.00000	.00186	.00183

RUM NO. 17/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWC	Q	CAF	CAB	COF	L/D
2.002	-1.450	-.00370	.15900	.15880	-.00780	-.03970	585.40000	.12869	.03051	.12985	-.00305
2.002	-.205	.04270	.15780	.15790	.04210	-.04650	585.40000	.12766	.13024	.12751	.20547
2.002	1.300	.09980	.15920	.15680	.10350	-.05450	585.40000	.12546	.03054	.12383	.58725
2.002	3.389	.17630	.18570	.15500	.18580	-.05660	585.40000	.12442	.02742	.13524	1.00197
2.002	5.440	.25180	.17760	.15290	.26750	-.07870	585.40000	.12215	.03051	.14716	1.41802
2.002	7.489	.32320	.19420	.15000	.34370	-.08790	585.40000	.12026	.03022	.16432	1.65330
2.002	9.558	.39770	.21630	.14780	.42220	-.09610	585.40000	.11751	.03053	.18639	1.83406
2.002	12.680	.51150	.28500	.14440	.55650	-.10360	585.40000	.11357	.03053	.23296	1.94360
2.002	15.790	.62820	.32460	.14180	.69270	-.11080	585.40000	.11016	.03114	.29403	1.99359
2.002	18.860	.74230	.40160	.14010	.83220	-.11920	585.40000	.10583	.03347	.36992	1.84822
2.002	21.960	.84670	.49020	.13800	.96860	-.12480	585.40000	.10167	.03471	.47836	1.72727
2.002	25.060	.95000	.59530	.13590	1.11300	-.13120	585.40000	.09567	.03783	.58172	1.55686
2.002	28.970	1.07400	.74280	.12960	1.29950	-.13840	585.40000	.09159	.03761	.70363	1.44594
GRADIENT		.03694	.00143	-.00078	.03973	-.00552	.00000	-.00166	.00000	.00137	.00122

ARC 97-747 QAS3B B C M F W L V LOW RM/L

(REK009) (04 APR 74)

REFERENCE DATA

BREF = 2.4210 29.8" YMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1024 IN. ZMRP = 11.2500 IN.
 SCALE = .0000 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000
 AILROM = .000 BOFLAP = 16.300
 SPDBRK = 95.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = 15.000

RUN NO. 19/ 0 RN/L = 1.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	COF	L/D
1.000	-1.450	.02270	.17590	.17640	.01800	-.04460	288.60000	.13650	.03990	.13599	.12900
1.000	-.195	.07550	.17550	.17580	.07450	-.05390	288.60000	.13574	.04056	.13548	.43008
1.000	1.324	1.1305	.17670	.17330	.14780	-.06660	288.60000	.13321	.04303	.13359	.81370
1.000	3.356	.21360	.18460	.17260	.24420	-.08370	288.60000	.13044	.04616	.14451	1.26647
1.000	5.395	.32150	.19360	.16760	.33850	-.09930	288.60000	.12774	.05986	.15300	1.61683
1.000	7.451	.40840	.22210	.16760	.43360	-.11550	288.60000	.12690	.04670	.18169	1.83916
1.000	9.444	.49360	.25130	.16650	.53050	-.13080	288.60000	.12451	.04209	.20384	1.97241
1.000	12.480	.62290	.30650	.16500	.67450	-.15020	288.60000	.12266	.04234	.26552	2.29394
1.000	15.540	.74950	.37710	.16250	.82320	-.16800	288.60000	.11846	.04404	.33467	1.96770
1.000	18.600	.87370	.46410	.16120	.97600	-.18220	288.60000	.11489	.04631	.42019	1.86243
1.000	21.640	.99250	.56090	.15890	1.12500	-.19420	288.60000	.11284	.04806	.51903	1.75212
1.000	24.690	1.08400	.67580	.15690	1.27200	-.20380	288.60000	.10572	.05208	.63829	1.61245
1.000	28.550	1.19600	.82650	.15390	1.44600	-.20300	288.60000	.09996	.05394	.77829	1.44822
GRADIENT		.04399	.00191	-.00126	.04708	-.00816	.00000	-.00131	.00005	.00178	.23721

RUN NO. 20/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	COF	L/D
2.002	-1.456	-.00050	.15780	.15770	-.00450	-.03950	199.20000	.13320	.02550	.13227	-.00312
2.002	-.201	.00950	.15790	.15720	.04990	-.04580	199.20000	.13040	.02680	.13022	.32129
2.002	1.315	.10420	.15950	.15660	.10780	-.05450	199.20000	.12937	.02723	.13181	.65507
2.002	3.336	.18050	.16580	.15500	.18980	-.06640	199.20000	.12752	.02748	.12835	1.08845
2.002	5.347	.24730	.17110	.15320	.26280	-.07770	199.20000	.12687	.02633	.15081	1.39745
2.002	7.371	.32090	.19370	.15100	.34310	-.08620	199.20000	.12596	.02704	.16696	1.65605
2.002	9.392	.39450	.21600	.14870	.42440	-.09390	199.20000	.12185	.02685	.18947	1.82644
2.002	12.410	.50470	.25960	.14500	.54870	-.10560	199.20000	.11829	.02345	.19345	1.94473
2.002	15.450	.61920	.31960	.14310	.68200	-.11810	199.20000	.11652	.02708	.29351	1.93745
2.002	18.480	.72940	.39420	.14270	.81680	-.13320	199.20000	.11251	.03019	.36562	1.85024
2.002	21.500	.82900	.47730	.14030	.94620	-.14820	199.20000	.10949	.03081	.44865	1.73855
2.002	24.540	.93280	.57890	.13930	1.08900	-.16620	199.20000	.10584	.03346	.54837	1.61099
2.002	28.370	1.03600	.71980	.13260	1.26900	-.18870	199.20000	.09927	.03333	.69033	1.46401
GRADIENT		.03749	.00173	-.00096	.04027	-.00364	.00000	-.00094	.00038	.00136	.22604

ARC 97-747 Q4338 B C M F W1 V NOM. RN/L

(REK010) (04 APR 74)

REFERENCE DATA

BREF = 2.4210 98.FT. WMRP = 32.3010 IN.
 LREF = 14.2440 IN. WMRP = .0000 IN.
 BREF = 28.1004 IN. WMRP = 11.2500 IN.
 SCALE = .0300 SCALE

R/M NO. 22/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
1.000	-1.339	-.06890	.16430	.16240	-.07330	.02520	590.10000	.11987	.04253	.12180	-.41940
1.000	-1.199	-.01000	.16090	.16090	-.01050	.01360	590.10000	.11826	.04264	.11830	-.06177
1.000	1.343	.05930	.15960	.15810	.06300	.00120	590.10000	.11579	.04231	.11723	.37157
1.000	3.407	.15000	.16360	.15440	.15930	-.01540	590.10000	.11287	.04153	.12215	.91710
1.000	5.319	.24760	.17360	.14900	.26310	-.03320	590.10000	.10802	.04098	.13282	1.42587
1.000	7.342	.33790	.19240	.14640	.36030	-.05090	590.10000	.10524	.04116	.15162	1.75637
1.000	9.609	.41830	.21600	.14310	.44870	-.05940	590.10000	.10104	.04206	.17432	1.93766
1.000	12.716	.54620	.26520	.13850	.59110	-.07480	590.10000	.09460	.04390	.22233	2.05969
1.000	15.790	.66990	.32910	.13440	.73420	-.08840	590.10000	.08847	.04593	.28492	2.05554
1.000	18.930	.79020	.40850	.13010	.88000	-.09890	590.10000	.08235	.04774	.36339	1.53417
1.000	22.100	.90480	.50200	.12470	1.02700	-.10600	590.10000	.07611	.04859	.45697	1.80231
1.000	25.110	1.00400	.60380	.12080	1.16300	-.11070	590.10000	.06952	.05128	.55732	1.66231
1.000	29.040	1.09700	.74170	.11600	1.31900	-.09960	590.10000	.06145	.05455	.69399	1.47289
GRADIENT	.04431	-.00010	-.00010	-.00165	.04712	-.00818	.00000	-.00144	-.00321	.00012	.27106

R/M NO. 21/ 0 RN/L = 2.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
2.002	-1.354	-.06590	.15110	.14930	-.06980	.00710	563.00000	.11816	.03074	.12041	-.43487
2.002	-1.200	-.01710	.14760	.14760	-.01760	.00010	563.00000	.11556	.03104	.11682	-.11570
2.002	1.333	.03960	.14600	.14510	.04300	-.00820	563.00000	.11409	.03101	.11506	.27121
2.002	3.380	.11450	.14870	.14170	.12310	-.01890	563.00000	.11121	.03049	.11828	.77016
2.002	5.491	.19240	.15700	.13790	.20630	-.03030	563.00000	.10749	.03021	.12675	1.22499
2.002	7.473	.26260	.17040	.13480	.28210	-.03920	563.00000	.10451	.03028	.14037	1.54093
2.002	9.350	.33580	.19070	.13040	.36240	-.04580	563.00000	.10056	.02974	.15939	1.77907
2.002	12.610	.44630	.22720	.12430	.48510	-.05330	563.00000	.09423	.03007	.19787	1.98413
2.002	15.730	.55830	.28250	.12060	.61420	-.06070	563.00000	.08815	.03245	.25136	1.97633
2.002	18.820	.66620	.35030	.11680	.74370	-.06830	563.00000	.08307	.03373	.31855	1.90105
2.002	21.920	.77120	.43110	.11210	.87640	-.07730	563.00000	.07690	.03520	.39851	1.78862
2.002	25.020	.87490	.52630	.10680	1.01500	-.08830	563.00000	.07007	.03673	.49278	1.66253
2.002	28.900	.98750	.63510	.09630	1.16100	-.09750	563.00000	.05946	.03654	.62282	1.50731
GRADIENT	.03659	-.00045	-.00045	-.00156	.03914	-.00528	-.00000	-.00150	-.00006	-.00039	.24507

ARC 97-747 Q433B B C M F W1 V MOM. RM/L

(REAR011) (04 APR 74)

REFERENCE DATA

SURF Z 2.4210 56.47. ZMRP Z 32.3010 IN.
 LREF Z 14.2440 IN. ZMRP Z .0000 IN.
 BRZF Z 28.1004 IN. ZMRP Z 11.2500 IN.
 SCALE P .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 27/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	COF	L/D
1.000	-1.489	-.03070	.15930	-.13740	-.09480	.04890	590.10000	.11807	.03933	.12049	-.58741
1.000	-1.183	-.03290	.15530	.15520	-.03340	.03840	590.10000	.11609	.03911	.11519	-.21187
1.000	1.354	.03660	.15330	.15240	.04020	.02680	590.10000	.11373	.03867	.11465	.23847
1.000	3.430	.12880	.15510	.14810	.13790	.01150	590.10000	.10569	.03841	.11774	.92514
1.000	5.507	.62180	.16550	.14340	.23670	-.00410	590.10000	.10522	.03818	.12745	1.34083
1.000	7.559	.31210	.18320	.14060	.33350	-.01860	590.10000	.10148	.03912	.14447	1.70318
1.000	9.642	.29180	.20950	.13650	.42060	-.02360	590.10000	.09697	.03953	.16805	1.91103
1.000	12.720	.51270	.25070	.13160	.55350	-.03750	590.10000	.08969	.04175	.20392	2.04554
1.000	15.830	.64090	.31310	.12630	.70200	-.04910	590.10000	.08331	.04299	.27164	2.04763
1.000	17.910	.71930	.36120	.12250	.79560	-.05480	590.10000	.07783	.04467	.31873	1.99146
1.000	18.940	.76000	.38760	.11990	.84470	-.05720	590.10000	.07483	.04507	.34493	1.96102
1.000	22.080	.66890	.47400	.11290	.98300	-.06040	590.10000	.06712	.04378	.43170	1.83171
1.000	25.180	.96960	.57610	.10880	1.12300	-.06110	590.10000	.06097	.04783	.53297	1.68527
1.000	28.120	1.06300	.71170	.10310	1.27700	-.04880	590.10000	.05121	.05189	.66518	1.49741
GRADIENT	.04466	-.00071	-.00189	.04734	-.00758	.00000	.00000	-.00170	-.00019	-.00049	.28404

RUN NO. 23/ 0 RN/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	COF	L/D
2.002	-1.483	-.03270	.14730	.14510	-.08650	.02530	562.70000	.11613	.02897	.11033	-.56158
2.002	-1.185	-.03720	.14290	.14280	-.03770	.01920	562.70000	.11392	.02888	.11405	-.26055
2.002	1.376	.03270	.14110	.14030	.02610	.01110	562.70000	.11139	.02911	.11199	.16103
2.002	3.373	.09540	.14360	.13780	.10370	.00220	562.70000	.10847	.02933	.11438	.66414
2.002	5.444	.16880	.15050	.13380	.18230	-.00750	562.70000	.10434	.02926	.12136	1.12145
2.002	7.480	.24160	.16340	.13030	.26080	-.01470	562.70000	.10104	.02946	.13414	1.47307
2.002	9.550	.31230	.18070	.12640	.33790	-.01920	562.70000	.09656	.02984	.15129	1.72790
2.002	12.620	.42350	.21710	.11930	.46070	-.02410	562.70000	.08927	.03003	.18777	1.95098
2.002	15.700	.53160	.26030	.11440	.58430	-.02860	562.70000	.08207	.03233	.23712	1.98157
2.002	18.870	.64060	.33410	.10900	.71420	-.03400	562.70000	.07604	.03296	.30294	1.91711
2.002	21.940	.74520	.41100	.10270	.84480	-.03950	562.70000	.06899	.03371	.37964	1.81363
2.002	25.040	.84610	.50150	.09620	.97880	-.04670	562.70000	.06048	.03572	.46908	1.68733
2.002	28.930	.93780	.62820	.08490	1.14100	-.05030	562.70000	.04956	.03534	.59332	1.52901
GRADIENT	.03685	-.00070	-.00149	.03934	-.00479	.00000	.00000	-.00158	.00008	-.00076	.25439

ARC 97-747 04338 B C M F W V MOM. RM/L

(RENO12) (06 APR 74)

REFERENCE DATA

802P = 2.4210 96.FT. YMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 802P = 26.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 ELEVOM = .000
 AIRCOM = .000 BDFLAP = -11.700
 SPDRK = .55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 28/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CC	CA	CN	CLMFW	Q	CAF	CAB	COF	L/D
1.000	-5.105	-0.0300	.15620	.15610	-.03090	.03430	593.70000	.11470	.04140	.11470	-.19795
1.000	-5.002	-0.03220	.15670	.15660	-.03260	.03690	593.70000	.11634	.04226	.11634	-.20817
1.000	-1.034	-0.03300	.15610	.15600	-.03350	.03860	593.70000	.11682	.03318	.11682	-.21474
1.000	-.013	-0.03180	.15560	.15550	-.03230	.03820	593.70000	.11657	.03693	.11657	-.20772
1.000	1.015	-0.03190	.15500	.15490	-.03240	.03880	593.70000	.11691	.03859	.11691	-.20793
1.000	3.071	-.02960	.15720	.15710	-.03020	.03860	593.70000	.11752	.03358	.11752	-.19223
1.000	5.132	-.02670	.15750	.15740	-.02750	.03750	593.70000	.11644	.04096	.11644	-.17344
1.000	5.772	-.02570	.15710	.15700	-.02680	.03650	593.70000	.11568	.04132	.11568	-.16752
GRADIENT	.00045	.00007	.00007	.00007	.00041	.00026	-1.00000	.00018	-.00011	.00019	.02267

RUN NO. 24/ 0 RM/L = 2.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CC	CA	CN	CLMFW	Q	CAF	CAB	COF	L/D
2.002	-5.595	-0.03230	.14480	.14470	-.03280	.03350	563.70000	.11402	.03368	.11402	-.22664
2.002	-5.471	-0.03460	.14550	.14540	-.03310	.03680	563.70000	.11511	.02969	.11511	-.24140
2.002	-1.456	-0.03580	.14430	.14420	-.03300	.03910	563.70000	.11501	.02511	.11501	-.24373
2.002	-.389	-0.03560	.14330	.14320	-.03160	.03910	563.70000	.11490	.02870	.11490	-.24209
2.002	.640	-0.03460	.14330	.14310	-.03320	.03950	563.70000	.11434	.02576	.11434	-.24538
2.002	2.719	-0.03320	.14310	.14290	-.03360	.03850	563.70000	.11395	.02392	.11395	-.23553
2.002	4.732	-.02830	.14250	.14190	-.02890	.03630	563.70000	.11122	.03366	.11122	-.23366
2.002	5.934	-.02650	.14110	.14100	-.02710	.03440	563.70000	.10974	.03125	.10974	-.19220
GRADIENT	.00077	-.00038	-.00038	-.00039	.00075	-.00010	.00000	-.00042	.00013	-.00032	.01463

ARC 97-747 Q4338 B C M F W V MOM. RM/L

(REK013) (04 APR 74)

REFERENCE DATA

REF = 2.4210 36. FT. TRAP = 32.3010 IM.
 LREF = 14.2440 IM. YMRP = .0000 IM.
 BRFP = 28.1054 IM. ZMRP = 11.2500 IM.
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
 A1LROM = .000 BDFLAP = -11.700
 SPDBRK = 55.000 RUOER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 29/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFWO	θ	CAF	CAB	CCF	L/D
1.000	-3.048	.41920	.21490	.13770	.45050	-.03150	595.10000	.09545	.04225	.17227	1.98286
1.000	-3.016	.41310	.21370	.13760	.44250	-.02770	595.10000	.09376	.04204	.17111	1.93708
1.000	-.996	.41190	.21240	.13650	.44240	-.02810	595.10000	.09624	.04026	.17169	1.95173
1.000	.024	.41300	.21170	.13570	.44360	-.02860	595.10000	.09646	.03924	.17206	1.98244
1.000	1.058	.41340	.21220	.13590	.44420	-.02810	595.10000	.09676	.03912	.17244	1.96167
1.000	3.062	.41370	.21260	.13760	.44190	-.02670	595.10000	.09694	.04565	.17272	1.94696
1.000	5.104	.42050	.21570	.13850	.45220	-.02860	595.10000	.09713	.04117	.17418	1.96213
1.000	6.927	.41890	.21310	.13610	.44970	-.02780	595.10000	.09533	.04077	.17197	1.97638
GRADIENT	.00046	-.00000	-.00056	.00045	.00045	.00015	-.00000	.00020	-.00226	.00028	.00195

RUN NO. 25/ 0 RM/L = 2.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFWO	θ	CAF	CAB	CCF	L/D
2.002	-3.428	.33490	.18980	.12830	.36290	-.02050	562.70000	.09639	.03191	.15794	1.76961
2.002	-3.393	.33090	.18910	.12830	.35880	-.01970	562.70000	.09707	.03123	-.0790	1.75489
2.002	-1.343	.33050	.18710	.12540	.35810	-.02220	562.70000	.09633	.03007	.15705	1.77170
2.002	-.343	.33030	.18610	.12550	.35770	-.02030	562.70000	.09559	.02991	.15625	1.77954
2.002	.059	.33120	.18590	.12510	.35860	-.01990	562.70000	.09555	.02955	.15637	1.78097
2.002	2.693	.32990	.18570	.12510	.35720	-.01940	562.70000	.09441	.02969	.15500	1.78187
2.002	4.728	.33490	.18620	.12490	.36220	-.02010	562.70000	.09246	.02834	.15395	1.80316
2.002	6.769	.33590	.18530	.12310	.36310	-.02200	562.70000	.09020	.02360	.15189	1.81627
2.002	8.801	.34070	.18340	.12310	.36780	-.02350	562.70000	.08844	.02466	.15096	1.84139
GRADIENT	.00038	-.00033	-.00039	.00031	.00031	.00001	.00000	-.00055	.00016	-.00049	.00016

ARC 97-747 04338 B C M F W1 V NOM. RM/L

(KERD14) (04 APR 74)

REFERENCE DATA

REF = 2.4210 96.FT. ZMRP = 32.3010 IN.
 LREF = 14.2440 IP. YMRP = .0000 IN.
 REF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0000 SCALE

ALPHA = 20.000 ELEVON = .000
 AIRCUM = .000 BDELAP = -11.700
 SPDRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 30/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLMFO	Q	CAF	CAB	COF	L/D
1.000	-5.047	.01800	.42490	.11800	.91390	-.03800	595.40000	-.06834	.04366	.37679	1.96372
1.000	-2.987	.01420	.42590	.11410	.91180	-.03860	595.40000	-.07010	.04400	.37773	1.95142
1.000	-.945	.01510	.42780	.11610	.91140	-.03880	595.40000	-.07001	.04529	.37826	1.94582
1.000	.000	.01440	.42830	.11580	.91280	-.03850	595.40000	-.07051	.04529	.37845	1.94320
1.000	1.066	.01440	.42830	.11590	.91290	-.03930	595.40000	-.07034	.04536	.37851	1.94283
1.000	3.127	.01540	.42740	.11460	.91350	-.03840	595.40000	-.06992	.04468	.37814	1.94393
1.000	5.168	.01710	.42640	.11290	.91470	-.03690	595.40000	-.06873	.04420	.37740	1.95954
1.000	7.218	.01430	.42560	.10360	.91010	-.03650	595.40000	-.06569	.04291	.37500	1.97325
1.000	9.271	.01370	.41650	.10490	.90810	-.03670	595.40000	-.06239	.04191	.36978	1.99789
GRADIENT	.00024	.00025	.00006	.00032	.00001	-.00000		-.00004	.00011	.00000	-.00012

RUN NO. 26/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLMFO	Q	CAF	CAB	COF	L/D
2.002	-5.423	.09990	.37030	.10320	.78470	-.03770	580.90000	-.07123	.03197	.33552	1.92162
2.002	-3.365	.09640	.37120	.10310	.78220	-.03740	580.90000	-.07263	.03247	.33510	1.91804
2.002	-1.320	.09510	.37240	.10260	.78130	-.03790	580.90000	-.07273	.03367	.33516	1.89913
2.002	-.324	.09430	.37110	.10360	.78010	-.03650	580.90000	-.07220	.03333	.33412	1.90398
2.002	.700	.09540	.37130	.10290	.78130	-.03620	580.90000	-.07161	.03349	.33410	1.90060
2.002	2.741	.09680	.37010	.10340	.78220	-.03800	580.90000	-.06946	.03344	.33319	1.91773
2.002	5.772	.09880	.36800	.10190	.78360	-.03890	580.90000	-.06811	.03329	.33210	1.92844
2.002	6.834	.09510	.36730	.09880	.78700	-.04460	580.90000	-.06431	.03443	.32966	1.94451
2.002	8.879	.09100	.36400	.09650	.78390	-.04690	580.90000	-.06221	.03429	.32117	1.96109
GRADIENT	.00036	-.00035	-.00006	-.00022	.00000			-.00004	.00014	-.00012	.00009

ARC 97-747 QAS38 B C M F W I V LOW RN/L

(REK015) (04 APR 74)

REFERENCE DATA

SRF = 2.4813 SQ.FT. XMRP = 38.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRP = 28.1004 IN. ZMRP = 11.2300 IN.
 SCALE = .0000 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDGRK = 33.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO 36/ 0 RN/L = 1.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFW	Q	CAF	CAB	COF	L/D
1.601	-1.515	-.08860	.15630	.15390	-.09370	.04460	254.90000	.11858	.03732	.12102	-.56339
1.601	-.188	-.02940	.15380	.15370	-.02990	.03330	254.90000	.11653	.03717	.11663	-.19113
1.601	1.331	.03820	.15150	.15060	.04170	.02130	254.90000	.11389	.03671	.11483	.23204
1.601	3.349	.12920	.15430	.14640	.13800	.00580	254.90000	.10964	.03676	.11731	.83789
1.601	5.377	.21980	.16270	.14180	.23010	-.00890	254.90000	.10490	.03690	.12600	1.32605
1.601	7.398	.30020	.17910	.13300	.32080	-.02020	254.90000	.10103	.03797	.14149	1.67587
1.601	9.428	.38880	.20280	.13640	.41680	-.03330	254.90000	.09730	.03910	.16426	1.91698
1.601	12.470	.50320	.24730	.13150	.55060	-.04790	254.90000	.09171	.03979	.20844	2.05920
1.601	15.510	.63430	.30780	.12690	.69330	-.06080	254.90000	.08477	.04213	.26713	2.06129
1.601	18.560	.74880	.36240	.12330	.83100	-.06890	254.90000	.07790	.04440	.33835	1.96836
1.601	21.610	.86450	.46740	.11630	.97590	-.07670	254.90000	.07074	.04556	.42518	1.84900
1.601	24.670	.96730	.56670	.11170	1.11600	-.08180	254.90000	.06401	.04769	.52364	1.70680
1.601	28.460	1.06100	.69590	.10610	1.26400	-.07010	254.90000	.05537	.05053	.65120	1.52478
GRADIENT	.04494	-.00078	-.00197	.04759	-.00795	.00000	.00000	-.00184	-.00013	-.00066	.28898

RUN NO. 35/ 0 RN/L = 1.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFW	Q	CAF	CAB	COF	L/D
2.002	-1.521	-.08940	.14590	.14360	-.08920	.02210	201.50000	.11907	.02453	.12139	-.58497
2.002	-.198	-.03790	.14200	.14190	-.03840	.01550	201.50000	.11729	.02461	.11742	-.26691
2.002	1.315	.01770	.13990	.13990	.02090	.00870	201.50000	.11416	.02374	.11461	.12601
2.002	3.334	.09490	.14250	.13870	.10350	-.00120	201.50000	.11110	.02360	.11691	.66599
2.002	5.351	.16600	.14870	.13250	.17920	-.01090	201.50000	.10634	.02616	.12239	1.11726
2.002	7.374	.23730	.16200	.13020	.25620	-.01770	201.50000	.10333	.02687	.13536	1.46520
2.002	9.408	.30850	.17900	.12620	.33340	-.02340	201.50000	.09911	.02709	.15227	1.72226
2.002	12.420	.41850	.21230	.11730	.45440	-.02830	201.50000	.09089	.02641	.18650	1.97158
2.002	15.440	.52780	.26270	.11270	.57870	-.03560	201.50000	.08555	.02715	.23633	2.00918
2.002	18.480	.63460	.32780	.10980	.70380	-.04390	201.50000	.07948	.03032	.29910	1.93560
2.002	21.510	.74190	.40400	.10410	.83760	-.05330	201.50000	.07294	.03116	.37498	1.83454
2.002	24.540	.84010	.49200	.09860	.96850	-.06260	201.50000	.06603	.03237	.46231	1.70766
2.002	28.330	.95170	.61270	.08780	1.12800	-.07120	201.50000	.05586	.03194	.58446	1.55284
GRADIENT	.03716	-.00065	-.00142	.03960	-.00477	.00000	.00000	-.00168	.00026	-.00091	.25841

ARC 97-747 Q4538 B C M F W I V NOM. RN/L

(REK016) (04 APR 74)

REFERENCE DATA

REF = 2.4210 86-FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 26.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AIRLON = .000 BOFLAP = .000
 SPDBRK = 35.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 33/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
1.000	-1.486	-.08030	.15880	.15650	-.09040	.04250	602.30000	.11668	.03982	.11098	-.54355
1.000	-.216	-.03190	.15330	.15320	-.03250	.03290	602.30000	.11556	.03964	.11568	-.20548
1.000	1.387	.04140	.15270	.15160	.04510	.01990	602.30000	.11261	.03899	.11367	.27133
1.000	3.441	.13340	.15610	.14780	.14250	.00430	602.30000	.10881	.03899	.11716	.85448
1.000	5.503	.22370	.16390	.14330	.14050	-.01140	602.30000	.10433	.03917	.12692	1.35992
1.000	7.543	.31600	.18390	.14080	.33740	-.02660	602.30000	.10089	.03991	.14431	1.71837
1.000	9.645	.39810	.20650	.13690	.42700	-.03310	602.30000	.09635	.04055	.16652	1.92744
1.000	12.720	.52340	.25280	.13130	.56620	-.04790	602.30000	.08902	.04228	.21150	2.07082
1.000	15.820	.64660	.31490	.12660	.70800	-.05930	602.30000	.08182	.04478	.27173	2.05411
1.000	18.980	.77040	.39300	.12100	.85640	-.06850	602.30000	.07426	.04674	.34876	1.96075
1.000	22.060	.87880	.48050	.11530	.99490	-.07320	602.30000	.06692	.04838	.43569	1.82877
1.000	25.190	.98520	.58360	.11030	1.14100	-.07840	602.30000	.06044	.05006	.54033	1.68275
1.000	29.120	1.07900	.72390	.10460	1.29300	-.06340	602.30000	.05172	.05288	.67441	1.49689
GRADIENT	.04474	-.00054	-.00103	.04741	-.00779	.00000	.00000	-.00164	-.00019	-.00035	.28337

RUN NO. 34/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
2.002	-1.549	-.08420	.14680	.14440	-.09610	.02220	589.40000	.11600	.02840	.11834	-.57361
2.002	-.206	-.03410	.14220	.14210	-.03460	.01340	589.40000	.11320	.02890	.11332	-.23989
2.002	1.330	.02200	.14070	.14010	.02330	.00750	589.40000	.11137	.02873	.11193	.15671
2.002	3.395	.09820	.14340	.13730	.10650	-.00330	589.40000	.10779	.02951	.11391	.58484
2.002	5.472	.17470	.15050	.13320	.18820	-.01320	589.40000	.10387	.02933	.12135	1.16010
2.002	7.503	.24600	.16330	.12980	.26520	-.02100	589.40000	.10097	.02833	.13474	1.50614
2.002	9.567	.32000	.18100	.12530	.34360	-.02670	589.40000	.09615	.02915	.15223	1.76782
2.002	12.660	.43160	.21800	.11810	.46880	-.03250	589.40000	.08902	.02908	.18960	1.97989
2.002	15.760	.54500	.27180	.11360	.59840	-.03880	589.40000	.08226	.03134	.24170	2.00463
2.002	18.870	.65380	.33860	.10890	.72820	-.04340	589.40000	.07602	.03288	.30745	1.93123
2.002	21.970	.76040	.41840	.10350	.86170	-.05260	589.40000	.06935	.03415	.38670	1.81736
2.002	25.080	.86300	.51170	.09770	.99850	-.06070	589.40000	.06180	.03590	.47922	1.68631
2.002	28.980	.97840	.64040	.08610	1.16600	-.06630	589.40000	.05054	.03556	.60915	1.52798
GRADIENT	.03685	-.00061	-.00142	.03932	-.00516	.00000	.00000	-.00161	.00020	-.00079	.25499

ARC 97-747 04338 B C W F W HIGH RN/L (REK017) (04 APR 74)

REFERENCE DATA

BREF = 2.4210 98.FT. XMRP = 32.3510 IN.
LREF = 14.2440 IN. YMRP = .0000 IN.
BREF = 28.1004 IN. ZMRP = 11.2503 IN.
SCALE = .0300 SCALE

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = .000
SPDBRK = 33.000 RUDDER = .000
ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 32/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFW	CAF	CAB	CDF	L/D
1.000	-1.508	-0.08540	.15830	.15600	-.00960	.04150	.11578	.04022	.11809	-.53987
1.000	-.172	-.02240	.15410	.15400	-.02590	.03080	.11417	.03983	.11425	-.18509
1.000	1.393	.04360	.15220	.15110	.04730	.01820	.11176	.07354	.11288	.28654
1.000	3.483	.13680	.15570	.14710	.14600	.05400	.10783	.03927	.11550	.87858
1.000	5.978	.23140	.16100	.14260	.24640	-.01180	.10330	.03935	.12676	1.39486
1.000	7.738	.32650	.18510	.13940	.34840	-.02700	.09943	.03997	.14544	1.76425
1.000	9.813	.41030	.20510	.13610	.44000	-.03240	.09533	.04577	.16894	1.98237
1.000	13.020	.54500	.25330	.12930	.58940	-.05360	.08867	.04113	.21918	2.10224
1.000	16.170	.66760	.32370	.12590	.73130	-.06280	.08019	.04481	.28067	2.08219
1.000	19.320	.78150	.39970	.11860	.86980	-.06700	.07172	.04888	.35545	1.93547
1.000	22.530	.89430	.49350	.11310	1.01500	-.07100	.06414	.04856	.44816	1.81238
1.000	25.710	.99720	.60580	.10860	1.15900	-.07320	.05708	.05152	.55482	1.66014
1.000	29.700	1.09200	.73340	.10150	1.31500	-.06130	.04760	.05390	.69287	1.47623
GRADIENT	.04448	-.00047	-.00180	.04716	-.00749	.00000	-.00160	-.00020	-.00026	.28463

RUN NO. 31/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFW	CAF	CAB	CDF	L/D
2.002	-1.518	-.08060	.14630	.14410	-.08440	.02110	.11503	.02907	.11712	-.55066
2.002	-.232	-.03270	.14190	.14170	-.03330	.01500	.11240	.02890	.11253	-.23073
2.002	1.371	.02690	.13990	.13920	.03030	.00660	.10979	.02941	.11048	.19274
2.002	3.423	.10030	.14290	.13670	.10870	-.000340	.10673	.02997	.11304	.70192
2.002	5.543	.17620	.15060	.13280	.18990	-.01270	.10317	.02963	.12103	1.17049
2.002	7.611	.25050	.16320	.12860	.26990	-.02080	.09920	.02940	.13407	1.53473
2.002	9.699	.32330	.18130	.12430	.34930	-.02550	.09506	.02924	.15255	1.78290
2.002	12.830	.43680	.21900	.11650	.47450	-.03130	.08687	.02963	.19007	1.99482
2.002	15.990	.55060	.27400	.11170	.60480	-.03810	.07999	.03341	.24350	2.00973
2.002	19.140	.66020	.34260	.10720	.73600	-.04430	.07379	.03464	.31103	1.92697
2.002	22.320	.76740	.42470	.10150	.87120	-.05170	.06686	.03464	.39271	1.80662
2.002	25.460	.87030	.51930	.09480	1.00900	-.06010	.05833	.03647	.48642	1.67569
2.002	29.470	.98440	.65190	.08330	1.17800	-.06360	.04724	.03606	.62066	1.50999
GRADIENT	.03661	-.00063	-.00149	.03908	-.00498	.00000	-.00166	.00017	-.00078	.25434

ASC 97-747 0455B B C M F M1 Y LOW RN/L
(REK018) (04 APR 74)

REFERENCE DATA

SREF = 2.4210 80.57. ZMRP = 32.3010 IM.
 LREF = 14.2440 IM. YMRP = .0000 IM.
 ORF = 20.1004 IM. ZMRP = 11.2500 IM.
 SCALE = .9300 SCALE

PARAMETRIC DATA

BETA	=	.000	ELEVON	=	-20.000
AILRON	=	.000	BOFLAP	=	-11.700
SPDBRK	=	53.000	RUDDER	=	.000
ELEV-L	=	-20.000	ELEV-R	=	-20.000

RUN NO. 37/ 0 RN/L = 1.26 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

RUN NO. 38/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	q	CAF	CAB	CDF	L/D
2.003	-1.460	-1.15480	.18440	.16040	-.11590	.07510	197.40000	.13666	.02374	.14066	-.94199
2.003	-.199	-.10720	.15850	.15760	-.10780	.06890	197.40000	.13296	.02464	.13333	-.67892
2.003	1.314	-.03120	.13345	.15463	-.04760	.06120	197.40000	.12934	.02556	.12792	-.73310
2.003	3.331	.02330	.13115	.14950	.03210	.05210	197.40000	.12375	.02575	.12541	-.15458
2.003	5.348	.09840	.13510	.14930	.11230	.04130	197.40000	.11594	.02636	.12690	1.45268
2.003	7.368	.17180	.16180	.13840	.19110	.03140	197.40000	.11246	.02634	.13604	1.05188
2.003	9.387	.24580	.17520	.13270	.27110	.02820	197.40000	.10573	.02697	.14853	1.40360
2.003	12.410	.35710	.20680	.12920	.39330	.02530	197.40000	.09896	.02694	.18047	1.72732
2.003	15.439	.46370	.25190	.11930	.51410	.02270	197.40000	.09140	.02790	.22506	1.84355
2.003	18.468	.57080	.30680	.11920	.63920	.01730	197.40000	.08303	.02897	.28136	1.84804
2.003	21.510	.67570	.37880	.10470	.76730	.01280	197.40000	.07453	.03067	.35029	1.8337
2.003	24.540	.76970	.45760	.09660	.89020	.00730	197.40000	.06462	.03196	.42951	1.68197
2.003	28.550	.88550	.57460	.08320	1.05200	.00330	197.40000	.05346	.03174	.54660	1.54103
2.003	33.714	-.00271	-.00226	.03985	.00482	.00050		-.00268	.00041	-.00311	.22981

DATE 16 JUL 74

TABULATED SOURCE DATA - 04338

PAGE 19

ARC 97-747 04338 B C M F W1 V MOM. RN/L

(REK019) (04 APR 74)

REFERENCE DATA

SRFP = 2.4210 88-FT. YMRP = 32.3010 IN.
 LRFP = 14.2440 IN. YMRP = .0000 IN.
 BRFP = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

BETA = .000 ELEVOM = -20.000
 AIRLON = .000 BDFLAP = -11.700
 SPDRK = 55.000 RUDDER = .000
 ELEV-L = -20.000 ELEV-R = -20.000

PARAMETRIC DATA

RUN NO. 42/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	COF	L/D
1.001	-1.511	-.20830	.18620	.18070	-.21110	.11380	606.40000	.14140	.03922	.14700	-1.10772
1.021	-.219	-.14640	.17910	.17830	-.14710	.10370	606.40000	.13830	.04020	.13887	-.81768
1.041	1.342	-.07640	.17410	.17590	-.07230	.09830	606.40000	.13509	.04081	.13336	-.43868
1.061	3.409	.01700	.17240	.17110	-.02730	.08300	606.40000	.13010	.04100	.13149	.09903
1.081	5.478	.11110	.17590	.15430	.12740	.06730	606.40000	.12354	.04096	.13514	.63165
1.101	7.545	.19810	.18690	.15930	.22090	.05440	606.40000	.11858	.04072	.14656	1.05962
1.121	9.615	.28740	.20440	.15360	.31750	.04210	606.40000	.11240	.04120	.16386	1.40349
1.141	12.730	.41910	.24500	.14660	.46280	.02620	606.40000	.10207	.04453	.20154	1.71085
1.161	15.830	.54720	.29730	.13670	.60760	.01820	606.40000	.09196	.04474	.25422	1.84104
1.181	18.950	.66450	.36480	.12930	.74700	.01070	606.40000	.08179	.04751	.31994	1.82124
1.201	22.070	.77570	.44530	.12210	.88660	.00780	606.40000	.07195	.05015	.39981	1.73826
1.221	25.190	.88290	.54150	.11420	1.02900	.00530	606.40000	.06270	.05150	.49470	1.63039
1.241	29.090	.98550	.67050	.10670	1.18700	.00300	606.40000	.05427	.05243	.62452	1.46999
GRADIENT	.04531	-.00273	-.00194	.04838	-.00745	.00000		-.00229	.00035	-.00306	.24367

RUN NO. 39/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	COF	L/D
2.003	-1.502	-.16170	.16650	.16220	-.16600	.07850	565.90000	.13438	.02782	.13869	-.97115
2.003	-.220	-.11350	.15960	.15920	-.11410	.07230	565.90000	.13118	.02802	.13162	-.71091
2.003	1.328	-.05480	.15410	.15530	-.05120	.06390	565.90000	.12706	.02824	.12584	-.35558
2.003	3.383	.02190	.15210	.15050	.03080	.05360	565.90000	.12191	.02859	.12352	.14380
2.003	5.435	.09680	.15580	.14590	.11110	.04410	565.90000	.11699	.02891	.12699	.62132
2.003	7.490	.17100	.16490	.14130	.19100	.03550	565.90000	.11129	.03001	.13523	1.03612
2.003	9.550	.24660	.17890	.13530	.27290	.02970	565.90000	.10493	.03037	.14875	1.37864
2.003	12.640	.35750	.21000	.12660	.39480	.02500	565.90000	.09585	.03075	.17992	1.70314
2.003	15.740	.46640	.25570	.11960	.51830	.02210	565.90000	.08768	.03192	.22499	1.82398
2.003	18.840	.57400	.31530	.11300	.64510	.01810	565.90000	.07963	.03337	.28369	1.82084
2.003	21.940	.67810	.38690	.10550	.77360	.01250	565.90000	.07079	.03471	.35470	1.75277
2.003	25.040	.77590	.47010	.09750	.90200	.00860	565.90000	.06133	.03517	.45734	1.65059
2.003	28.930	.89140	.58960	.08490	1.06500	.00600	565.90000	.04931	.03559	.55834	1.51153
GRADIENT	.03761	-.00290	-.00241	.04030	-.00313	.00000		-.00256	.00016	-.00306	.22927

ARC 97-747 Q433B B C M F W1 V HIGH RN/L

(IREK02C) (04 APR 74)

REFERENCE DATA

SRP = 8.4210 88.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRP = 28.1004 IN. ZMRP = 11.2300 IN.
 SCALE = .0000 SCALE

BETA = .000 ELEVON = -20.000
 ALROW = .000 BOFLAP = -11.700
 SPOBRK = 55.000 RUCCER = .000
 ELEV-L = -20.000 ELEV-R = -20.000

PARAMETRIC DATA

RUN NO. 41/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
1.001	-1.538	-20040	18390	.17840	-20530	.11760	911.1 900	.13668	.04172	.14214	-1.09029
1.001	-2.218	-14080	.17670	.17820	-14150	.10710	911.10000	.13377	.04243	.13431	-1.79681
1.001	1.365	-06970	.17280	.17440	-06560	.09330	911.10000	.13253	.04187	.13093	-1.40359
1.001	3.479	.02530	.17150	.16970	.03560	.08310	911.10000	.12792	.04178	.12984	-1.14727
1.001	5.573	.11830	.17610	.16380	.13480	.06950	911.10000	.12215	.04165	.13467	.67146
1.001	7.681	.21080	.18840	.15850	.23410	.05150	911.10000	.11706	.04144	.14729	1.11917
1.001	9.784	.29930	.20690	.15300	.33010	.03780	911.10000	.10971	.04329	.16421	1.44890
1.001	12.960	.43260	.24850	.14110	.47750	.02430	911.10000	.10101	.04459	.20553	1.74168
1.001	16.130	.56240	.30430	.13600	.62480	.01400	911.10000	.09009	.04991	.26013	1.84869
1.001	19.310	.67760	.37290	.12 90	.76280	.01020	911.10000	.07965	.04935	.32741	1.81686
1.001	22.490	.79190	.43820	.12540	.90690	.00720	911.10000	.06942	.05098	.41103	1.72840
1.001	25.690	.89960	.53760	.11250	1.05300	.00470	911.10000	.05374	.05276	.51031	1.61358
1.001	29.650	.99875	.68850	.10420	1.20900	.00180	911.10000	.03046	.05374	.64191	1.45088
GRADIENT	.04505	-.00236	-.00170	-.00170	.04808	-.00747	.00000	-.00167	-.00003	-.00231	.24811

RUN NO. 40/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
2.003	-1.538	-16100	.16540	.16110	-16540	.07700	872.90000	.13353	.02807	.13742	-.97352
2.003	-2.230	-11360	.15860	.15820	-11420	.07100	872.90000	.12990	.02840	.13026	-1.7 578
2.003	1.338	-.05400	.15290	.15410	-.05040	.06310	872.90000	.12554	.02856	.12433	-.00311
2.003	3.420	.02470	.15140	.14970	.03370	.05270	872.90000	.12056	.02914	.12036	-1.6316
2.003	5.506	.10050	.15520	.14490	.11490	.04230	872.90000	.11537	.02933	.12566	.64710
2.003	7.601	.17610	.16470	.13990	.19630	.03390	872.90000	.10962	.03028	.13462	1.06945
2.003	9.697	.25000	.17910	.13440	.27660	.02920	872.90000	.10384	.03056	.14895	1.33616
2.003	12.640	.36590	.21200	.12600	.40090	.02480	872.90000	.09490	.03110	.18162	1.71215
2.003	16.000	.47590	.25990	.11870	.52910	.02150	872.90000	.08661	.03209	.22910	1.80074
2.003	19.150	.58650	.32180	.11160	.65960	.01640	872.90000	.07812	.03348	.29018	1.82252
2.003	22.310	.69280	.39670	.10390	.79150	.01130	872.90000	.06953	.03487	.36433	1.74652
2.003	25.470	.79340	.48310	.09400	.92410	.00670	872.90000	.05887	.03610	.45055	1.64216
2.003	29.420	.90360	.60630	.08320	1.08700	.0010	872.90000	.04757	.03583	.57538	1.49386
GRADIENT	.03754	-.00279	-.00232	-.00232	.04023	-.00492	.00000	-.00253	.00001	-.00300	.23051

APC 97-747 QAS38 B C M F VI V MOM. RN/L

(REK021) (04 APR 74)

REFERENCE DATA

BREF = 2.4213 80. FT. 2MRP = 32.3010 IN.
 LREF = 14.2443 IN. 1MRP = .0000 IN.
 BREF = 28.1054 IN. 2MRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = -10.000
 AIRLOM = 10.000 BDFLAP = -11.700
 SPDBRK = 55.000 PUSDER = .000
 ELEV-L = .000 ELEV-R = -20.000

RUN NO. 44/ 0 RN/L = 2.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
1.000	-1.531	-1.14870	.17310	.16910	-.15330	.00580	590.10000	.13049	.03861	.13459	-.05842
1.000	-1.596	-1.08650	.16670	.16540	-.14910	.00740	590.10000	.12753	.03807	.12783	-.03107
1.000	1.377	-.01780	.16310	.16350	-.01390	.00350	590.10000	.12454	.03896	.12417	-.15928
1.000	3.411	.17240	.16150	.15930	.08200	.04850	590.10000	.12033	.03857	.12499	.44222
1.000	5.494	.16370	.16260	.15320	.17920	.03260	590.10000	.11486	.03834	.13149	.96496
1.000	7.552	.12550	.16470	.14350	.27760	.01820	590.10000	.11074	.03876	.14627	1.38266
1.000	9.614	.33790	.25430	.14500	.36730	.00000	590.10000	.10504	.03936	.16491	1.65401
1.000	12.710	.45400	.24690	.13750	.50750	-.00600	590.10000	.09663	.04207	.20581	1.87993
1.000	15.820	.59270	.35370	.13500	.65310	-.01760	590.10000	.08746	.04314	.26219	1.95185
1.000	18.930	.70930	.37440	.12400	.79240	-.07480	590.10000	.07844	.04556	.33126	1.89475
1.000	22.050	.82010	.45950	.11300	.93260	-.02760	590.10000	.07025	.04775	.41522	1.78461
1.000	25.170	.92530	.55830	.11100	1.07500	-.03100	590.10000	.06215	.04935	.51345	1.65027
1.000	29.070	1.02100	.68850	.10380	1.22700	-.01660	590.10000	.05379	.05201	.64318	1.48266
GRADIENT	.04429	-.00187	-.00234	.02745	-.00748	.00000	.00000	-.00203	-.00001	-.00186	.26336

RUN NO. 43/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
2.002	-1.537	-.12520	.15680	.15340	-.12940	.00330	563.10000	.12615	.02725	.12957	-.79864
2.002	.215	-.07620	.15100	.15070	-.07680	.04620	563.10000	.12287	.02783	.12316	-.50491
2.002	.327	-.01920	.14760	.14800	-.01580	.00920	563.10000	.12004	.02796	.11964	-.13024
2.002	3.391	.05770	.14800	.14430	.06630	.02870	563.10000	.11606	.02824	.11978	.38960
2.002	5.451	.13180	.15360	.14540	.14500	.01900	563.10000	.11157	.02883	.12492	.83801
2.002	7.497	.20600	.16470	.13640	.22590	.01100	563.10000	.10678	.02952	.13533	1.25124
2.002	9.563	.27840	.18020	.13150	.30440	.00510	563.10000	.10190	.02960	.15103	1.54416
2.002	12.650	.38960	.21390	.12340	.42690	.00030	563.10000	.09324	.03016	.18446	1.82106
2.002	15.740	.49960	.26500	.11760	.55220	-.00380	563.10000	.08548	.03212	.23207	1.89368
2.002	18.840	.60730	.32520	.11170	.67980	-.00880	563.10000	.07825	.03345	.29359	1.86726
2.002	21.940	.71000	.39910	.10470	.80820	-.01380	563.10000	.07008	.03462	.36698	1.78542
2.002	25.040	.81140	.48670	.09760	.94120	-.02040	563.10000	.06141	.03619	.45400	1.66690
2.002	28.910	.92200	.60710	.08360	1.10100	-.02300	563.10000	.05027	.03533	.57626	1.51914
GRADIENT	.03711	-.00172	-.00183	.03870	-.00495	.00000	.00000	-.00202	.00018	-.00190	.24193

ACC 97-747 Q453B B C M F W I V MOM. RN/L

(REK022) (04 APR 74)

REFERENCE DATA

SRFP = 2.4210 SQ.FT. XMRP = 32.3010 IN.
 LRFP = 16.2440 IN. YMRP = .0000 IN.
 ORFP = 26.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0000 SCALE

BETA = .000 ELEVOM = -20.000
 AIRLROM = 20.000 BDPLAP = -11.700
 SPOBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = -40.000

PARAMETRIC DATA

RUN NO. 46/ 0 RN/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CCF	L/D
1.000	-1.503	-1.0340	.20030	.19320	-.19860	.11210	587.40000	.15672	.03648	.16188	-.96541
1.000	-.217	-1.3300	.19220	.19170	-.13370	.10030	587.40000	.15327	.03843	.15378	-.69182
1.000	1.337	-.06020	.18660	.18790	-.05590	.08710	587.40000	.14930	.03860	.14796	-.32308
1.000	3.401	.03490	.18410	.18170	.04580	.06990	587.40000	.14260	.03910	.14506	.18979
1.000	5.473	.13080	.18650	.17320	.14790	.09220	587.40000	.13457	.03863	.14806	.70078
1.000	7.543	.22650	.19670	.16520	.25030	.03540	587.40000	.12684	.03826	.15870	1.15166
1.000	9.605	.31370	.21370	.15840	.34500	.02160	587.40000	.11860	.03980	.17450	1.46780
1.000	12.720	.44250	.25370	.15000	.48750	.00660	587.40000	.10827	.04173	.21293	1.74449
1.000	15.820	.57100	.30740	.14010	.63320	-.00510	587.40000	.09836	.04184	.26716	1.85750
1.000	18.930	.68930	.37860	.13450	.77490	-.01280	587.40000	.08943	.04507	.33398	1.82074
1.000	22.040	.79820	.46120	.12790	.91290	-.01520	587.40000	.08138	.04652	.41800	1.75598
1.000	25.160	.90320	.55930	.12180	1.05500	-.01680	587.40000	.07330	.04850	.51520	1.61500
1.000	29.080	1.00200	.68950	.11570	1.21100	-.00570	587.40000	.06380	.05190	.64434	1.45297
GRADIENT		.04656	-.00321	-.00273	.04983	-.00858	.00000	-.00267	.00013	-.00334	.22653

RUN NO. 45/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CCF	L/D
2.002	-1.537	-1.1520	.17620	.17190	-.15990	.06900	565.20000	.14410	.02780	.14839	-.88074
2.002	-.217	-1.0400	.16900	.16860	-.10460	.06110	565.20000	.14022	.02838	.14062	-.71517
2.002	1.329	-.04280	.16400	.16500	-.03900	.03210	565.20000	.13584	.02916	.13490	-.26059
2.002	3.378	.03370	.16180	.15990	.04310	.04090	565.20000	.13006	.02944	.13238	.16288
2.002	5.428	.10670	.16410	.15300	.12370	.03000	565.20000	.12332	.02958	.13447	.66257
2.002	7.484	.18440	.17160	.14610	.20320	.02090	565.20000	.11563	.03047	.14137	1.27483
2.002	9.549	.25690	.18610	.14090	.28420	.01600	565.20000	.11026	.03064	.15588	1.38042
2.002	12.640	.36900	.21790	.13100	.40780	.01010	565.20000	.10100	.03180	.18779	1.59423
2.002	15.740	.48170	.26640	.12570	.53590	.00590	565.20000	.09290	.03280	.23479	1.80847
2.002	18.840	.58860	.32720	.11960	.66270	.00080	565.20000	.08566	.03394	.29407	1.79884
2.002	21.930	.69370	.39950	.11150	.79270	-.00320	565.20000	.07683	.03467	.36732	1.72648
2.002	25.030	.79480	.48590	.10390	.92580	-.01150	565.20000	.06817	.03552	.45547	1.63612
2.002	28.900	.90720	.60740	.09330	1.08800	-.01470	565.20000	.05651	.03679	.57528	1.43371
GRADIENT		.03837	-.00285	-.00250	.04122	-.00370	.00000	-.00284	.00034	-.00319	.22196

ARC 97-74 04538 B C W F W V NOM. RM/L

PARAMETRIC DATA

REF = 2.4210 50.FT. XMRP = 32.3010 IM.

LREF = 14.2440 IM. YMRP = .0000 IM.

BREF = 20.1004 IM. ZMRP = 11.2500 IM.

SCALE = .0000 SCALE

BETA = .000 ELEVOM = -20.000

AILROM = .000 BDFLAP = -11.700

SPCRK = 55.000 PUGGER = .000

ELEV-L = -40.000 ELEV-R = -40.000

RUN NO. 48/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFO	Q	CAF	CAB	CDF	L/D
1.000	-1.536	-23840	.24160	.23360	-.39470	.17140	588.60000	.19194	.54166	.20004	-1.23438
1.000	-.239	-23920	.23500	.22900	-.23620	.15090	588.60000	.18734	.54166	.18932	-1.02208
1.000	1.315	-18050	.22110	.22470	-.15940	.14510	588.60000	.18262	.54208	.17901	-.72607
1.000	3.385	-.56270	.21340	.21670	-.55000	.12680	588.60000	.17412	.54258	.17286	-.29389
1.000	5.457	.53670	.20850	.20410	.53640	.10760	588.60000	.16118	.54292	.16582	.17615
1.000	7.521	.15010	.21150	.19230	.16270	.08660	588.60000	.14596	.54274	.16997	.64210
1.000	9.589	.2.300	.22260	.18090	.26690	.56840	588.60000	.13975	.54115	.18226	1.54379
1.000	12.690	.36550	.25450	.16790	.41250	.05220	588.60000	.12559	.54231	.21114	1.43679
1.000	15.810	.90220	.30000	.15470	.56370	.53820	588.60000	.11294	.54176	.26279	1.65742
1.000	18.920	.61760	.37200	.15060	.70440	.53440	588.60000	.10573	.54487	.32242	1.66506
1.000	22.040	.72880	.45000	.14390	.84450	.53260	588.60000	.09596	.54794	.40585	1.61800
1.000	25.160	.83170	.54010	.13530	.98240	.53270	588.60000	.08473	.55057	.49436	1.53577
1.000	28.000	.94120	.66770	.12660	1.14700	.53870	588.60000	.07310	.55350	.62086	1.40942
GRADIENT	.54788	-.55561	-.55339	.55174	-.55303	.50000	.50000	-.50359	.50000	-.55192	.19216

RUN NO. 47/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFO	Q	CAF	CAB	CDF	L/D
2.002	-1.524	-22360	.20650	.20050	-.22900	.10890	567.40000	.17221	.50209	.17824	-1.08284
2.002	-.238	-17380	.19660	.19390	-.17460	.10120	567.40000	.16689	.50901	.16761	-.88392
2.002	1.311	-11110	.18630	.18880	-.10680	.08970	567.40000	.15863	.50917	.15614	-.59628
2.002	3.365	-.02860	.17900	.18030	-.01800	.07650	567.40000	.14979	.50551	.14848	-.15953
2.002	5.424	.05090	.17000	.17240	.06750	.06520	567.40000	.14100	.51110	.14704	.28595
2.002	7.473	.12610	.16130	.16330	.14860	.05540	567.40000	.13078	.51252	.14899	.69576
2.002	9.535	.20070	.19120	.15530	.22960	.04980	567.40000	.12320	.51593	.15977	1.04977
2.002	12.630	.31470	.21870	.14460	.35490	.04460	567.40000	.11229	.51231	.16717	1.43892
2.002	15.730	.42800	.26250	.13660	.48310	.04030	567.40000	.10288	.51372	.23100	1.83066
2.002	18.830	.53350	.31950	.12970	.60980	.03570	567.40000	.09488	.51482	.28662	1.67502
2.002	21.930	.64090	.38750	.12020	.73920	.03120	567.40000	.08439	.51581	.35435	1.63341
2.002	25.030	.74300	.46920	.11070	.87180	.02650	567.40000	.07436	.51634	.43623	1.58389
2.002	28.930	.85850	.56850	.10080	1.01400	.02370	567.40000	.06303	.51777	.53535	1.45512
GRADIENT	.03999	-.00562	-.00419	.04326	-.00671	.00000	.00000	-.00466	.00000	-.55610	.18998

ARC 97-747 QAS38 B C W F W1 V MOM. RN/L

(REK024) (04 APR 74)

REFERENCE DATA

SRF = 2.4210 SR.FT. XMRP = 32.3010 IN.
 LRF = 14.2440 IN. YMRP = .0000 IN.
 BRF = 28.1504 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

BETA = .000 ELEVOM = .000
 AILROM = .000 BOFLAP = -11.700
 SPOBRK = 23.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 56/ 0 RN/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFO	Q	CAF	CAB	CDF	L/D
1.000	-1.534	-0.0170	.14450	.14220	-.08350	.02520	598.10000	.10149	.04071	.10375	-.56538
1.000	-1.207	-.02320	.13960	.13960	-.02370	.01530	598.10000	.09977	.03983	.09986	-.18037
1.000	1.345	.04550	.13820	.13710	.04870	.00400	598.10000	.09761	.03945	.09872	.52899
1.000	3.417	.13630	.14160	.13520	.14450	-.01000	598.10000	.09445	.03875	.10289	.96276
1.000	5.471	.22660	.15110	.12680	.24000	-.02400	598.10000	.09037	.03823	.11304	1.49989
1.000	7.546	.31830	.16970	.12640	.33760	-.03810	598.10000	.08768	.03872	.13128	1.87589
1.000	8.575	.35670	.17960	.12440	.37950	-.04070	598.10000	.08495	.03945	.14559	1.98619
1.000	12.710	.52270	.23900	.11810	.56250	-.05610	598.10000	.07679	.04131	.19867	2.18748
1.000	15.820	.64840	.30110	.11290	.70590	-.06710	598.10000	.06988	.04302	.25967	2.51305
1.000	18.960	.76710	.37640	.10680	.84770	-.07390	598.10000	.06247	.04433	.33451	2.81750
1.000	22.080	.87710	.46420	.10050	.98720	-.07370	598.10000	.05563	.04487	.42264	3.18924
1.000	25.170	.97880	.56650	.09630	1.12700	-.07760	598.10000	.04957	.04723	.52373	3.72829
1.000	29.580	1.07600	.70350	.09370	1.28300	-.06590	598.10000	.04093	.05277	.65335	4.52485
GRADIENT	.04419	-.00049	.00160	.04661	-.00711	.00000		-.00143	-.00537	-.00511	31.065

RUN NO. 49/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFO	Q	CAF	CAB	CDF	L/D
2.002	-1.548	-.07510	.13420	.13220	-.07870	.00490	570.60000	.10268	.02952	.10477	-.55929
2.002	-2.216	-.02780	.13020	.13010	-.02830	-.00070	570.60000	.10072	.02932	.10088	-.21358
2.002	1.325	.02920	.12870	.12800	.03220	-.00780	570.60000	.09860	.02940	.09932	.22711
2.002	3.363	.10360	.13200	.12370	.11120	-.01690	570.60000	.09624	.02946	.10263	.76451
2.002	5.438	.17770	.13950	.12200	.19010	-.02530	570.60000	.09253	.02947	.11513	1.27402
2.002	7.488	.24980	.15320	.11930	.26770	-.03220	570.60000	.08899	.03031	.12312	1.63134
2.002	9.531	.32350	.17190	.11590	.34700	-.03610	570.60000	.08511	.03079	.14151	1.87910
2.002	12.640	.43210	.20930	.10960	.46740	-.04010	570.60000	.07843	.03117	.17880	2.05521
2.002	14.700	.50610	.24230	.10590	.55100	-.04310	570.60000	.07423	.03167	.21162	2.08909
2.002	15.740	.54200	.26080	.10400	.59240	-.04390	570.60000	.07164	.03236	.22965	2.07811
2.002	18.840	.64920	.32550	.09830	.71960	-.04750	570.60000	.06592	.03238	.29476	1.59533
2.002	21.940	.73260	.40340	.09300	.84880	-.05150	570.60000	.06200	.03280	.37298	1.96556
2.002	25.040	.83170	.49350	.08840	.98130	-.05650	570.60000	.05597	.03443	.46424	1.71973
2.002	28.910	.96210	.62250	.07980	1.14300	-.05840	570.60000	.04469	.03511	.59169	1.54555
GRADIENT	.03632	-.00039	.00131	.03859	-.00442	.00000		-.00131	-.00500	-.00518	27349

ARC 97-747 04338 B C M F W1 V MOM. RM/L

(REK025) (04 APR 74)

REFERENCE DATA

BREF = 2.4219 90.FT. YMRP = 32.3010 IN.
 LBEP = 14.2440 IN. YMRP = .0000 IN.
 SBEP = 28.1004 IN. ZMRP = 11.2300 IN.
 SCALE = .0000 SCALE

ALPHA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = -11.700
 SPDRK = 25.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 55/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLM ² /Q	Q	CAF	CAB	COF	L/D
1.000	-5.162	-.02030	.14120	.14120	-.02070	.01060	598.40000	.09879	.04291	.09829	-1.1660
1.000	-5.101	-.02050	.14130	.14120	-.02340	.01320	598.40000	.09542	.04170	.09942	-1.1672
1.000	-5.034	-.02070	.14060	.14050	-.02350	.01490	598.40000	.10005	.04045	.10005	-1.16149
1.000	-5.012	-.02190	.13990	.13980	-.02240	.01440	598.40000	.09983	.03997	.09983	-1.16023
1.000	1.016	-.02170	.14040	.14030	-.02230	.01490	598.40000	.09995	.04035	.09995	-1.15895
1.000	3.085	-.02120	.14150	.14140	-.02180	.01480	598.40000	.10029	.04111	.10029	-1.15417
1.000	5.149	-.01760	.14150	.14140	-.01840	.01390	598.40000	.09958	.04182	.09958	-1.15015
1.000	5.985	-.01650	.14130	.14130	-.01710	.01360	598.40000	.09896	.04234	.09896	-1.12102
GRADIENT	.05042	.00002	.00002	.00002	.00039	.00023	.00000	.00012	-.00010	.00012	.00277

RUN NO. 50/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLM ² /Q	Q	CAF	CAB	COF	L/D
2.002	-5.540	-.02410	.13130	.13130	-.02430	-.00370	576.90000	.09990	.03140	.09990	-1.18660
2.002	-5.482	-.02470	.13210	.13200	-.02510	-.00300	576.90000	.10141	.03059	.10141	-1.19515
2.002	-5.417	-.02610	.13150	.13140	-.02660	-.00100	576.90000	.10170	.02970	.10170	-1.20244
2.002	-5.376	-.02670	.13030	.13020	-.02710	-.00050	576.90000	.10086	.02934	.10086	-1.20814
2.002	.647	-.02580	.13020	.13010	-.02630	-.00030	576.90000	.10083	.02927	.10083	-1.20215
2.002	2.708	-.02230	.13030	.13020	-.02280	-.00100	576.90000	.09955	.03065	.09955	-1.17512
2.002	4.774	-.01940	.12940	.12930	-.02000	-.00050	576.90000	.09792	.03138	.09792	-1.15469
2.002	5.815	-.01910	.12880	.12880	-.01970	-.00040	576.90000	.09719	.03161	.09719	-1.15295
GRADIENT	.00074	-.00004	-.00001	-.00001	.00072	-.00007	.00000	-.00044	.00014	-.00044	.00012

DATE 16 JUL 74

TABULATED SOURCE DATA - Q4338

PAGE 26

ARC 97-747 Q4338 B C M F W1 V MON. RM/L

(REK086) (04 APR 74)

REFERENCE DATA

BREF = 2.4210 98. FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0350 SCALE

ALPHA = 10.000 ELEVOM = .000
 AIRLOP = .000 BOFLAP = -11.700
 SPOBEM = 25.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 94/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	COF	L/D
1.000	-5.041	.48970	.20300	.12480	.45870	-.05060	596.60000	.06130	.04290	.15972	2.12989
1.000	-3.001	.42270	.20590	.12340	.45150	-.04690	596.60000	.06131	.04209	.15848	2.11683
1.000	-1.988	.42200	.19990	.12260	.45060	-.04740	596.60000	.06231	.04009	.15951	2.12312
1.000	.036	.42400	.19970	.12210	.45250	-.04770	596.60000	.06212	.03998	.15945	2.13470
1.000	1.041	.42270	.19930	.12190	.45120	-.04670	596.60000	.06199	.03991	.15910	2.13257
1.000	3.078	.42610	.20140	.12340	.45490	-.04740	596.60000	.06247	.04176	.16021	2.12730
1.000	5.107	.42910	.20250	.12400	.45800	-.04730	596.60000	.06224	.04176	.16052	2.13001
1.000	7.141	.42900	.20580	.12240	.45760	-.04650	596.60000	.06110	.04130	.15933	2.14693
1.000	7.543	.43060	.20030	.12150	.45910	-.04590	596.60000	.06041	.04103	.15891	2.16186
GRADIENT	.00054	.00053	.00053	-.00003	.00053	-.00054	-.00000	.00045	-.00018	.00024	.00223

RUN NO. 51/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	COF	L/D
2.002	-5.433	.34610	.17990	.11630	.37420	-.03680	580.70000	.06421	.03209	.14791	1.94037
2.002	-3.382	.34470	.17970	.11670	.37090	-.03720	580.70000	.06438	.03172	.14808	1.92343
2.002	-1.360	.34160	.17800	.11560	.36750	-.03680	580.70000	.06476	.03084	.14729	1.92415
2.002	-.348	.34300	.17800	.11330	.36890	-.03720	580.70000	.06449	.03081	.14727	1.93277
2.002	.677	.34190	.17770	.11320	.36770	-.03690	580.70000	.06435	.03085	.14691	1.92925
2.002	2.702	.34230	.17710	.11450	.36800	-.03670	580.70000	.06364	.03086	.14528	1.93887
2.002	4.750	.34510	.17750	.11450	.37080	-.03680	580.70000	.06117	.03263	.14501	1.94911
2.002	6.766	.34720	.17730	.11400	.37290	-.03640	580.70000	.07996	.03404	.14350	1.96269
2.002	8.803	.35070	.17700	.11310	.37620	-.04190	580.70000	.07601	.03509	.14216	1.98345
GRADIENT	.00007	-.00026	-.00026	-.00027	.00053	.00053	.00000	-.00037	.00010	-.00026	.00329

ARC 97-747 Q4338 B C M F W1 V NOM, RM/L

(REK027) (04 APR 74)

REFERENCE DATA

PARAMETRIC DATA

BREF = 2.4219 98.FT. RM = 32.3010 IN.
 LREF = 14.2440 IN. YML = .0000 IN.
 BREF = 28.1054 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

ALPHA = 20.000 ELEVOM = .000
 AIRLON = .000 BDFAP = -11.700
 SPDRK = 25.000 RUGGER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 53/ 0 RM/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLMFO	CAF	CAB	CDF	L/D
1.000	-5.047	.82630	.41880	.10120	.91990	-.07320	.05742	.04378	.36859	2.02331
1.000	-5.050	.82290	.41790	.10350	.91710	-.07400	.05836	.04514	.36850	2.01106
1.000	-5.956	.82400	.41900	.10410	.91850	-.07500	.05893	.04517	.36932	2.00866
1.000	.064	.82310	.41810	.10330	.91740	-.07410	.05839	.04491	.36864	2.01233
1.000	1.091	.82290	.41790	.10320	.91720	-.07430	.05854	.04466	.36871	2.01275
1.000	3.137	.82600	.41970	.10370	.92070	-.07350	.05855	.04515	.36991	2.01217
1.000	5.180	.82460	.41750	.10210	.91860	-.07190	.05789	.04421	.36858	2.01960
1.000	7.231	.82470	.41410	.09880	.91760	-.07020	.05380	.04291	.36635	2.03716
1.000	9.279	.82240	.41070	.09640	.91420	-.07010	.05453	.04187	.36391	2.04634
GRADIENT		.00040	.00021	-.00001	.00046	.00005	-.00000	-.00002	.00017	.00036

RUN NO. 52/ 0 RM/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLMFO	CAF	CAB	CDF	L/D
2.002	-3.412	.70360	.36120	.09350	.78340	-.05190	.06097	.03233	.32191	1.96061
2.002	-3.362	.70070	.36120	.09460	.78260	-.05030	.06238	.03222	.32628	1.97175
2.002	-1.319	.69080	.36120	.09480	.78180	-.04960	.06183	.03297	.32549	1.96393
2.002	-.894	.70000	.36080	.09420	.78180	-.04930	.06160	.03260	.32527	1.97382
2.002	.716	.70040	.36110	.09430	.78240	-.04960	.06128	.03302	.32519	1.97345
2.002	2.770	.70100	.36080	.09380	.78280	-.05040	.06040	.03340	.32449	1.97684
2.002	4.801	.70380	.36010	.09210	.78320	-.05290	.05832	.03376	.32335	1.98915
2.002	6.844	.70610	.36050	.09140	.78740	-.05500	.05677	.03463	.32266	1.99311
2.002	8.922	.70540	.35930	.09070	.78640	-.05500	.05640	.03450	.32197	1.99877
GRADIENT		.00038	-.00012	-.00029	.00032	-.00031	-.00000	.00016	-.00034	.00205

ARC 97-747 QAS38 B C M F VR V MOM. RM/L

(IREK028) (04 APR 74)

REFERENCE DATA

REF = 2.4210 30.71. YMRP = 32.3010 IM.
 LREF = 14.2440 IM. YMRP = .0000 IM.
 REF = 20.1004 IM. YMRP = 11.2300 IM.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AILROM = .000 BDFLAP = .000
 SPD88K = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 57/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFO	Q	CAF	CAB	CDF	L/D
1.000	-1.493	-0.0930	-0.1300	-0.1560	-0.0900	-0.0240	593.40000	-0.1176	-0.0924	-0.1937	-0.54086
1.000	-1.101	-0.02670	-0.1340	-0.1540	-0.02710	-0.0130	593.40000	-0.11541	-0.03919	-0.11549	-0.17203
1.000	1.350	-0.4160	-0.1240	-0.1340	-0.04320	-0.0190	593.40000	-0.11312	-0.03828	-0.11416	-0.27291
1.000	3.400	-0.1330	-0.1330	-0.1420	-0.1400	-0.0400	593.40000	-0.10594	-0.03826	-0.11700	-0.46431
1.000	5.490	-0.2260	-0.1630	-0.1420	-0.2410	-0.0120	593.40000	-0.10440	-0.03850	-0.12701	-1.37012
1.000	7.562	-0.3170	-0.1630	-0.1390	-0.3900	-0.0260	593.40000	-0.10240	-0.03950	-0.14414	-1.73295
1.000	9.635	-0.4030	-0.2030	-0.1360	-0.4290	-0.0360	593.40000	-0.09624	-0.04025	-0.16669	-1.93870
1.000	12.710	-0.5240	-0.2570	-0.1310	-0.5670	-0.0460	593.40000	-0.08940	-0.04170	-0.21200	-2.03557
1.000	15.830	-0.6500	-0.3140	-0.1270	-0.7170	-0.0600	593.40000	-0.08130	-0.04360	-0.27316	-2.56251
1.000	18.940	-0.7690	-0.3910	-0.1200	-0.8540	-0.0680	593.40000	-0.07429	-0.04601	-0.34772	-1.96678
1.000	22.060	-0.8810	-0.4800	-0.1140	-0.9610	-0.0730	593.40000	-0.06708	-0.04752	-0.43628	-1.82236
1.000	25.190	-0.9820	-0.5830	-0.1070	-1.1380	-0.0770	593.40000	-0.05995	-0.05015	-0.53461	-1.68312
1.000	29.070	-1.0760	-0.7170	-0.1040	-1.2890	-0.0830	593.40000	-0.05158	-0.05242	-0.67135	-1.50774
GRADIENT	-0.4436	-0.0067	-0.0067	-0.0067	-0.0473	-0.0073	-0.0000	-0.00169	-0.00023	-0.00044	-0.0059

RUN NO. 57/ 0 RM/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFO	Q	CAF	CAB	CDF	L/D
2.002	-1.501	-0.0790	-0.1470	-0.1450	-0.0820	-0.0240	565.30000	-0.11745	-0.0815	-0.19358	-0.33516
2.002	-1.197	-0.0310	-0.1430	-0.1430	-0.03160	-0.0140	565.30000	-0.11504	-0.02036	-0.11515	-0.21675
2.002	1.302	-0.2370	-0.1430	-0.1470	-0.02490	-0.0060	565.30000	-0.11230	-0.02840	-0.11293	-0.18182
2.002	3.391	-0.0660	-0.1430	-0.1370	-0.1900	-0.0030	565.30000	-0.10319	-0.02851	-0.11545	-0.69951
2.002	5.457	-0.1710	-0.1520	-0.1390	-0.4870	-0.0130	565.30000	-0.10320	-0.02870	-0.12267	-1.15785
2.002	7.492	-0.2460	-0.1630	-0.1300	-0.610	-0.0210	565.30000	-0.10134	-0.02868	-0.13517	-1.50916
2.002	9.536	-0.3160	-0.1820	-0.1290	-0.7440	-0.0260	565.30000	-0.09722	-0.02858	-0.15292	-1.79873
2.002	12.690	-0.4310	-0.2100	-0.1180	-0.8690	-0.0320	565.30000	-0.08992	-0.02838	-0.19042	-1.97682
2.002	15.730	-0.5400	-0.2500	-0.1130	-0.9900	-0.0370	565.30000	-0.08294	-0.03036	-0.24076	-1.93765
2.002	18.840	-0.6490	-0.3370	-0.1090	-1.1270	-0.0440	565.30000	-0.07724	-0.03196	-0.30681	-1.92749
2.002	22.000	-0.7550	-0.4100	-0.1060	-1.2670	-0.0500	565.30000	-0.07000	-0.03360	-0.38983	-1.81185
2.002	25.010	-0.8500	-0.5040	-0.0970	-1.4090	-0.0590	565.30000	-0.06191	-0.03569	-0.47410	-1.58816
2.002	29.920	-0.9630	-0.6320	-0.0860	-1.5540	-0.0630	565.30000	-0.05092	-0.03448	-0.67263	-1.57036
GRADIENT	-0.0678	-0.00073	-0.00073	-0.00162	-0.0329	-0.00491	-0.0000	-0.00169	-0.00037	-0.00079	-0.00224

DATE 14 JUL

TABLE OF SOURCE DATA - Q4338

PAGE 29

ARC 97-747 Q4338 B C M F W1 V NOM. RN/L

(REK029) (04 APR 74)

REFERENCE DATA

XREF = 2.4210 30.87 YMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 ELEVOM = .000
 AIRLON = .000 BOFLAP = -11.700
 SPDBRK = 55.000 RUDDER = -19.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 62/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	COF	L/D
1.000	-5.154	-.03090	.15650	.15640	-.03140	.03370	596.60000	.11382	.04258	.11382	-.20077
1.000	-3.100	-.03190	.15560	.15670	-.03230	.03670	596.60000	.11547	.04123	.11547	-.20613
1.000	-1.045	-.03300	.15630	.15620	-.03350	.03820	596.60000	.11643	.03977	.11643	-.21447
1.000	-.028	-.03270	.15620	.15610	-.03320	.03850	596.60000	.11666	.03944	.11666	-.21868
1.000	1.010	-.03170	.15700	.15680	-.03220	.03890	596.60000	.11704	.03976	.11704	-.20536
1.000	3.070	-.03300	.15880	.15870	-.03360	.03980	596.60000	.11754	.04116	.11754	-.21172
1.000	5.143	-.03030	.15920	.15900	-.03090	.03940	596.60000	.11650	.04250	.11650	-.19434
1.000	6.173	-.02990	.15910	.15900	-.03080	.03870	596.60000	.11593	.04307	.11593	-.19182
GRADIENT		-.00010	.00033	.00032	-.00013	.00049	-.00000	.00033	-.00004	.00033	-.00037

RUN NO. 59/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	COF	L/D
2.002	-5.543	-.03380	.14350	.14340	-.03430	.01300	572.20000	.11221	.03119	.11221	-.23919
2.002	-3.490	-.03610	.14490	.14480	-.03650	.01720	572.20000	.11432	.03048	.11432	-.25207
2.002	-1.401	-.03640	.14430	.14470	-.03680	.01970	572.20000	.11530	.02940	.11530	-.25432
2.002	-.389	-.03530	.14440	.14430	-.03570	.01960	572.20000	.11479	.02951	.11479	-.24740
2.002	.624	-.03590	.14450	.14430	-.03640	.02000	572.20000	.11485	.02945	.11485	-.25225
2.002	2.707	-.03330	.14490	.14470	-.03380	.02030	572.20000	.11405	.03065	.11405	-.23359
2.002	4.770	-.02980	.14450	.14440	-.03030	.01900	572.20000	.11288	.03152	.11288	-.20983
2.002	5.786	-.02900	.14400	.14390	-.02960	.01750	572.20000	.11205	.03185	.11205	-.20570
GRADIENT		.00077	-.00003	-.00003	.00075	.00019	.00000	-.00021	.00017	-.00021	.00314

ASC 97-747 OA338 B C H F W1 V NOM. RN/L

(IRK030) (24 APR 74)

REFERENCE DATA

SREF = 2.4210 80.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 SREF = 26.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

MACH	BETA	CL	CD	CA	CN	CLMFO	Q	CAF	CAB	PDF	L/D
1.600	-5.047	.41810	.21380	.13680	.44920	-.03130	596.30000	.59401	.04279	.17039	1.96790
1.600	-3.908	.41080	.21290	.13720	.44190	-.02760	596.30000	.59497	.04223	.17026	1.94175
1.600	-1.998	.41070	.21200	.13640	.44170	-.02760	596.30000	.59634	.04006	.17158	1.94905
1.600	.020	.41120	.21170	.13600	.44210	-.02770	596.30000	.59639	.03961	.17169	1.95425
1.600	.1034	.41180	.21250	.13670	.44270	-.02700	596.30000	.59661	.04009	.17202	1.94913
1.600	3.070	.40910	.21420	.13680	.44040	-.02560	596.30000	.59771	.04109	.17270	1.92154
1.600	5.109	.41630	.21620	.13950	.44790	-.02590	596.30000	.59809	.04141	.17437	1.93752
1.600	7.145	.41670	.21460	.13800	.44800	-.02500	596.30000	.59872	.04128	.17505	1.95243
1.600	9.185	.41730	.21340	.13680	.44830	-.02500	596.30000	.59436	.04244	.17078	1.96516
GRADIENT		-.00020	.00022	.00025	-.00017	.00033	.00000	.00042	-.00017	.00038	-.00000

RUN NO. 63/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 60/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFO	Q	CAF	CAB	PDF	L/D
2.002	-5.430	.33850	.18820	.12650	.36420	-.02230	571.70000	.59446	.03204	.15627	1.79267
2.002	-3.374	.33270	.18880	.12780	.36060	-.02040	571.70000	.59604	.03176	.15720	1.76643
2.002	-1.355	.33010	.18780	.12720	.35780	-.01940	571.70000	.59644	.03076	.15710	1.76242
2.002	-.349	.33150	.18740	.12660	.35910	-.01930	571.70000	.59633	.03027	.15722	1.77327
2.002	.667	.32950	.18650	.12600	.35700	-.01850	571.70000	.59616	.02984	.15669	1.77182
2.002	2.698	.33030	.18750	.12690	.35800	-.01760	571.70000	.59585	.03105	.15656	1.76621
2.002	4.731	.33280	.18790	.12690	.36050	-.01700	571.70000	.59433	.03257	.15550	1.77525
2.002	6.781	.33270	.18770	.12670	.36040	-.01810	571.70000	.59355	.03361	.15422	1.77694
2.002	9.779	.33770	.18800	.12620	.36350	-.02050	571.70000	.59159	.03461	.15363	1.79371
GRADIENT		.00001	-.00010	-.00009	-.00001	.00043	.00000	-.00020	.00011	-.00020	.00094

DATE 16 JUL 74

TABLE 1 SOURCE DATA - OA33B

PAGE 31

AFC 97-747 OA33B B C M F W1 V NOM. RM/L

(REK031) (04 APR 74)

REFERENCE DATA

SREF = 2.4210 SQ.FT
 LREF = 14.2440 IN.
 SREF = 24.1004 IN.
 SCALE = .0000 SCALE

XMRP = 32.3010 IN.
 YMRP = .0000 IN.
 ZMRP = 11.2500 IN.

PARAMETRIC DATA

ALPHA = 20.000 ELEVON = .000
 AIRLON = .000 BDFLAP = -11.700
 SPCBRK = 55.000 RUDEP = -10.000
 ELEV-L = .000 ELEV-R = .000

RUN NO 84/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	COF	L/D
1.000	-5.044	.8100	.4240	.1260	.9100	-.0580	595.1000	.0680	.0410	.3799	1.9588
1.000	-2.997	.8100	.4240	.1140	.9080	-.0570	595.1000	.0702	.0443	.3770	1.9470
1.000	-.950	.8100	.4240	.1160	.9100	-.0580	595.1000	.0703	.0459	.3779	1.9378
1.000	.002	.8100	.4240	.1170	.9120	-.0584	595.1000	.0712	.0458	.3769	1.9366
1.000	1.071	.8100	.4240	.1160	.9110	-.0579	595.1000	.0711	.0457	.3782	1.9367
1.000	2.115	.8100	.4240	.1150	.9140	-.0561	595.1000	.0718	.0432	.3767	1.9454
1.000	2.168	.8100	.4240	.1140	.9130	-.0561	595.1000	.0705	.0438	.3751	1.9526
1.000	7.841	.8100	.4240	.1010	.9100	-.0500	595.1000	.0667	.0423	.3748	1.9710
1.000	9.275	.8100	.4190	.1030	.9100	-.0579	595.1000	.0694	.0419	.3710	1.9974
GRADIENT	.0002	.0004	.0007	.0013	.0005	.0014	-.0000	.0016	-.0003	.0040	-.0007

RUN NO. 61/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	COF	L/D
2.002	-5.410	.6960	.3700	.1040	.7820	-.0384	571.5000	.0717	.0332	.3349	1.9142
2.002	-3.369	.6930	.3710	.1060	.7790	-.0356	571.5000	.0730	.0327	.3360	1.8974
2.002	-1.315	.6920	.3700	.1020	.7780	-.0359	571.5000	.0744	.0306	.3367	1.8937
2.002	-.315	.6920	.3710	.1050	.7780	-.0351	571.5000	.0735	.0375	.3357	1.8953
2.002	.709	.6920	.3710	.1050	.7780	-.0344	571.5000	.0728	.0364	.3347	1.8977
2.002	2.754	.6930	.3700	.1040	.7810	-.0359	571.5000	.0708	.0382	.3339	1.9118
2.002	4.784	.6990	.3690	.1010	.7840	-.0360	571.5000	.0696	.0364	.3325	1.9310
2.002	6.841	.7000	.3670	.0990	.7830	-.0436	571.5000	.0643	.0347	.3289	1.9449
2.002	8.884	.6970	.3630	.0970	.7800	-.0443	571.5000	.0629	.0346	.3260	1.9516
GRADIENT	.0009	.0003	.0006	.0006	.0003	-.0003	-.0000	-.0007	.0001	-.0001	.0043

ARC 97-747 0453B B C M F W L V MON. RM/L

(REK032) (04 APR 74)

REFERENCE DATA

SEEF = 2.4210 36.FT. YMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 ELEVOM = .000
 AIRLON = .000 RDELAP = -11.700
 SPDRFR = 59.000 RUDDER = -251.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 66/ 0 RM/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLMFWO	Q	CAF	CAB	CDF	L/D
1.600	-5.042	.80820	.42740	.11730	.90670	-.04970	587.10000	.07353	.04397	.07353	7.71660
1.600	-5.502	.80290	.42860	.12050	.90220	-.04850	587.10000	.07657	.04403	.07657	7.48093
1.600	-5.952	.80380	.43130	.12260	.90390	-.04750	587.10000	.07767	.04493	.07767	7.37276
1.600	-5.962	.80400	.43170	.12270	.90430	-.04770	587.10000	.07739	.04531	.07739	7.37021
1.600	-5.085	.80490	.43200	.12260	.90520	-.04710	587.10000	.07738	.04522	.07738	7.38336
1.600	-5.122	.80740	.43170	.12130	.90730	-.04740	587.10000	.07638	.04432	.07638	7.48143
1.600	-5.175	.80690	.42890	.11820	.90790	-.04760	587.10000	.07592	.04428	.07592	7.68105
1.600	-7.217	.81220	.42330	.11180	.90900	-.04990	587.10000	.06962	.04218	.06962	8.13039
1.600	-8.1090	.81090	.41790	.10720	.90590	-.05280	587.10000	.06159	.04161	.06159	8.45046
GRADIENT	.00072	.00049	.00049	.00010	.00084	.00018	-.00000	-.00004	.00014	-.00004	.00037

RUN NO. 65/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLMFWO	Q	CAF	CAB	CDF	L/D
2.002	-5.553	-.03490	.14830	.14820	-.03540	.01840	565.50000	.11689	.03131	.11689	-27.887
2.002	-3.488	-.03720	.15030	.15020	-.03760	.02470	565.50000	.11997	.03023	.11997	-25.033
2.002	-1.421	-.03860	.15080	.15070	-.03910	.02730	565.50000	.12136	.02934	.12136	-25.946
2.002	-1.385	-.03830	.15040	.15030	-.03880	.02850	565.50000	.12098	.02932	.12098	-25.811
2.002	.644	-.03770	.15070	.15060	-.03820	.02940	565.50000	.12112	.02948	.12112	-25.365
2.002	2.704	-.03580	.15120	.15110	-.03630	.02940	565.50000	.12078	.03102	.12078	-24.924
2.002	4.770	-.03390	.15080	.15060	-.03450	.02820	565.50000	.11879	.03181	.11879	-22.908
2.002	5.797	-.03290	.15050	.15030	-.03350	.02730	565.50000	.11822	.02278	.11822	-22.289
GRADIENT	.00048	.00007	.00007	.00006	.00046	.00041	-.00000	-.00019	.00025	-.00019	.00116

ARC 97-747 04538 B C M F VI V NOM. RM/L

(REK033) (04 APR 74)

REFERENCE DATA

BREF = 2.4210 98.F YMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRCT = 28.1000 IN. ZMRP = 11.2550 IN.
 SCALE = .0370 SCALE

PARAMETRIC DATA

ALPHA = 10.000 ELEVOM = .000
 AILPOM = .000 BDPLAP = -11.705
 SPDPRK = 55.000 RUDDER = -25.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 69/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CN	CLMFW	Q	CAF	CAB	CDF	L/D
1.600	-5.051	.41230	.21760	.44420	-.02390	589.80000	.09946	.74204	.17598	1.90720
1.600	-3.017	.40420	.21680	.44210	-.02000	589.80000	.10042	.54169	.17460	1.87664
1.600	-.004	.40590	.21650	.43780	-.02020	589.80000	.10204	.03956	.17651	1.86684
1.600	.021	.40510	.21660	.43690	-.01960	589.80000	.10270	.03920	.17750	1.86127
1.600	1.033	.40700	.21830	.43910	-.01930	589.80000	.10285	.04055	.17754	1.87395
1.600	3.064	.40710	.22220	.43950	-.01750	589.80000	.10370	.04130	.17844	1.86541
1.600	5.095	.41440	.22220	.44700	-.01720	589.80000	.10378	.04202	.17983	1.87559
1.600	7.135	.41960	.22380	.44800	-.01510	589.80000	.10260	.04160	.17883	1.89350
1.600	9.166	.41840	.21960	.45050	-.01450	589.80000	.10378	.04172	.17748	1.91656
GRADIENT	.00048	.00060	.00060	.00052	.00041	-.00000	.00053	-.00001	.00062	-.00004

RUN NO. 66/ 0 RM/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CN	CLMFW	Q	CAF	CAB	CDF	L/D
2.002	-5.430	.33100	.19220	.35950	-.01620	569.80000	.09985	.53145	.15076	1.72761
2.002	-3.590	.32690	.19200	.35550	-.01350	569.80000	.10113	.03977	.16132	1.70745
2.002	-1.359	.32440	.19100	.35280	-.01230	569.80000	.10124	.03006	.16097	1.70354
2.002	-.547	.32420	.19040	.35250	-.01170	569.80000	.10115	.02961	.16087	1.70732
2.002	.668	.32330	.19050	.35160	-.01090	569.80000	.10113	.02957	.16100	1.71228
2.002	2.699	.32360	.19200	.35250	-.00880	569.80000	.10141	.03099	.16103	1.69075
2.002	4.724	.32820	.19370	.35700	-.00700	569.80000	.10053	.03277	.16099	1.69935
2.002	6.754	.33250	.19460	.36140	-.00760	569.80000	.09971	.03379	.16107	1.71307
2.002	8.785	.33420	.19480	.36310	-.00930	569.80000	.09899	.03441	.16053	1.72004
GRADIENT	.00012	.00024	.00024	.00015	.00082	.00000	-.00005	.00026	-.00002	-.00149

ARC 97-747 04538 B C M F W1 V MOM. RM/L

(REK034) (04 APR 74)

REFERENCE DATA

REF = 2.4210 36.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

ALPHA = 20.000 ELEVOM = .000
 AIRLON = .000 BDFLAP = -11.700
 SPDRK = 55.000 RUDDER = -25.000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 70/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLIM-ND	Q	CAF	CAB	CDP	L/D
1.000	-5.177	-.03200	.15950	.15940	-.03240	.03820	590.10000	.11791	.04149	.03972	-.61255
1.000	-3.110	-.03590	.16160	.16150	-.03630	.04370	590.10000	.12177	.03973	.10201	-.64119
1.000	-1.934	-.03710	.16250	.16240	-.03750	.04640	590.10000	.12272	.03968	.10249	-.64947
1.000	-.023	-.03640	.16210	.16200	-.03690	.04660	590.10000	.12274	.03926	.10271	-.64524
1.000	1.009	-.03620	.16310	.16300	-.03670	.04710	590.10000	.12293	.04007	.10296	-.64171
1.000	3.072	-.03200	.16520	.16510	-.03250	.04760	590.10000	.12356	.04134	.10500	-.60410
1.000	5.139	-.03100	.16550	.16540	-.03160	.04760	590.10000	.12279	.04261	.10457	-.59650
1.000	6.165	-.02990	.16490	.16480	-.03050	.04730	590.10000	.12176	.04304	.10398	-.58870
GRADIENT	.00061	.00055	.00055	.00055	.00059	.00060	-.00000	.00027	.00028	.00046	.00378

RUN NO. 67/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLIM-ND	Q	CAF	CAB	CDP	L/D
2.002	-5.415	.69070	.37260	.10870	.77730	-.03300	569.10000	.07625	.03245	.33751	1.86384
2.002	-3.371	.68500	.37160	.11170	.77230	-.02850	569.10000	.07902	.03268	.33840	1.86267
2.002	-1.328	.68400	.37340	.11170	.77130	-.02720	569.10000	.07932	.03238	.33834	1.86185
2.002	-.310	.68340	.37250	.11100	.77040	-.02750	569.10000	.07840	.03260	.33716	1.86559
2.002	.715	.68430	.37190	.11000	.77100	-.02770	569.10000	.07741	.03259	.33644	1.87159
2.002	2.756	.68780	.37070	.10760	.77380	-.02990	569.10000	.07435	.03325	.33452	1.86736
2.002	4.797	.69150	.36870	.10440	.77670	-.03370	569.10000	.07132	.03358	.33267	1.90832
2.002	6.839	.69640	.36730	.10140	.78080	-.03980	569.10000	.06656	.03444	.32997	1.92924
2.002	8.886	.69210	.36430	.10010	.77570	-.03870	569.10000	.06615	.03395	.32747	1.93307
GRADIENT	.00087	-.00062	.00059	-.00094	.00059	-.00067	.00000	-.00102	.00008	-.00075	.00587

APC 97-747 Q4538 B C M F W I V NOM. RM/L

(REK033) (04 APR 74)

REFERENCE DATA

BBEP = 2.4810 SQ.F YMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = 1.0000 IN.
 SBEP = 20.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHA = .000 ELEVOM = .000
 AIRLOM = .000 BDFLAP = -11.700
 SPDRK = 25.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

PUN MO. 767 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLMFWO	Q	CAF	CAB	CGF	L/D
1.001	-5.171	-.02080	.14180	.14180	-.02110	.01260	589.70000	.09936	.04222	.05958	-1.14880
1.001	-3.107	-.02470	.14320	.14210	-.02310	.01580	599.70000	.10121	.04789	.10121	-1.17664
1.001	-1.049	-.02570	.14300	.14130	-.02410	.01800	599.70000	.10219	.03971	.10219	-1.19393
1.001	-.018	-.02520	.14220	.14210	-.02370	.01930	599.70000	.10232	.03178	.10232	-1.18086
1.001	1.013	-.02500	.14140	.14330	-.02360	.01910	599.70000	.10295	.04335	.10295	-1.17865
1.001	3.093	-.02100	.14550	.14540	-.02350	.01960	599.70000	.10352	.04188	.10352	-1.16152
1.001	5.139	-.02050	.14510	.14600	-.02110	.01940	599.70000	.10182	.04299	.10182	-1.14432
1.001	6.165	-.01790	.14590	.14590	-.01950	.01920	599.70000	.10245	.04345	.10245	-1.12680
GRADIENT	.00028	.00008	.00055	.00055	.00006	.00061	.00000	.00037	.00017	.00037	.00244

PUN MO. 717 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLMFWO	Q	CAF	CAB	CGF	L/D
2.002	-5.543	-.02370	.13290	.13280	-.02620	-.00550	566.90000	.10114	.03166	.10114	-1.19729
2.002	-3.477	-.02630	.13270	.13260	-.02570	-.00170	566.90000	.10185	.03075	.10185	-1.20136
2.002	-1.413	-.02790	.13200	.13190	-.02430	.00170	566.90000	.10233	.02957	.10233	-1.21456
2.002	-.381	-.02890	.13160	.13150	-.02260	.00190	566.90000	.10214	.02936	.10214	-1.20076
2.002	.654	-.02590	.13180	.13170	-.02540	.00290	566.90000	.10173	.02997	.10173	-1.20046
2.002	2.709	-.02500	.13200	.13190	-.02550	.00300	566.90000	.10390	.03100	.10390	-1.19333
2.002	4.774	-.02070	.13170	.13160	-.02130	.00160	566.90000	.09959	.03201	.09959	-1.16185
2.002	5.799	-.01890	.13150	.13140	-.01930	-.00010	566.90000	.09912	.03228	.09912	-1.14840
GRADIENT	.00068	.00009	.00009	-.00009	.00006	.00037	.00000	-.00030	.00021	-.00030	.00489

ARC 97-747 04338 B C M F W V MOM. RM/L

(REK038) (04 APR 74)

REFERENCE DATA

PARAMETRIC DATA

BREF = 2.4210 80.FT. ZMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRCF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .2500 SCALE

ALPHA = 10.000 ELEVOM = .000
 AILFOM = .000 BOFLAP = -11.700
 SPDRFX = 25.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 75/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFD	Q	CAF	CAB	CDF	L/D
1.001	-5.250	.48770	.20210	.12370	.45860	-.04890	590.30000	.08219	.04151	.16023	2.12911
1.001	-5.318	.42180	.20160	.12420	.45070	-.04520	590.30000	.08297	.04123	.15997	2.10536
1.001	-9.92	.42150	.20100	.12370	.45030	-.04470	590.30000	.08426	.03944	.16117	2.10974
1.001	.022	.42140	.20100	.12370	.45020	-.04470	590.30000	.08421	.03949	.16110	2.10943
1.001	1.037	.42140	.20170	.12450	.45030	-.04410	590.30000	.08470	.03960	.16160	2.10577
1.001	3.087	.42310	.20450	.12690	.45240	-.04320	590.30000	.08497	.04193	.16224	2.09073
1.001	5.099	.42330	.20340	.12750	.45460	-.04290	590.30000	.08455	.04195	.16323	2.08152
1.001	6.112	.42710	.20480	.12660	.45640	-.04190	590.30000	.08328	.04132	.16324	2.09682
1.001	7.135	.42680	.20360	.12560	.45590	-.04100	590.30000	.08427	.04133	.16215	2.10531
1.001	9.172	.43160	.20390	.12490	.46070	-.04100	590.30000	.08260	.04230	.16135	2.12812
GRADIENT		.00019	.00046	.00044	.00025	.00033	-5.0000	.00032	.00012	.00036	-.00409

RUN NO. 72/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFD	Q	CAF	CAB	CDF	L/D
2.002	-5.421	.34370	.17980	.11690	.36980	-.03770	565.70000	.08317	.03175	.14809	1.91780
2.002	-5.368	.34060	.17920	.11690	.36670	-.03600	565.70000	.08355	.03135	.14792	1.90660
2.002	-1.358	.33790	.17820	.11640	.36390	-.03510	565.70000	.08349	.03091	.14738	1.90187
2.002	-1.342	.33760	.17770	.11600	.36340	-.03450	565.70000	.08346	.03084	.14727	1.90144
2.002	.670	.33870	.17710	.11560	.36440	-.03430	565.70000	.08479	.03045	.14674	1.91742
2.002	2.700	.33800	.17780	.11610	.36380	-.03290	565.70000	.08301	.03119	.14699	1.90476
2.002	4.728	.33970	.17600	.11590	.36560	-.03220	565.70000	.08307	.03223	.14578	1.91369
2.002	5.747	.34290	.17630	.11570	.36880	-.03260	565.70000	.08272	.03298	.14550	1.92774
2.002	6.762	.34350	.17880	.11600	.36940	-.03360	565.70000	.08222	.03399	.14512	1.92419
2.002	8.792	.34610	.17920	.11610	.37210	-.03360	565.70000	.08117	.03431	.14455	1.91129
GRADIENT		-.00005	-.00013	-.00011	-.00008	.00000	.00000	-.00023	.00012	-.00024	-.00096

ABC 97-747 04538 B C M F W1 V WOM. RM/L

(REK037) (04 APR 74)

REFERENCE DATA

SHEP = 2.4210 98.57. TMRF = 38.3010 IN.
 LREF = 14.2440 IN. TMRF = .0000 IN.
 BREF = 28.1004 IN. ZREF = 11.2800 IN.
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHA = 20.000 ELEVOM = .000
 ALROM = .000 BOFLAP = -11.700
 SPDRK = 25.000 PUOSER = -10.000
 ELEV-L = .000 ELEV-R = .000

PUN NO. 74/ 0 RM/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFG	Q	CAF	CAB	CCF	L/D
1.001	-5.152	.02120	.4517	.1260	.91480	-.07170	590.30000	.03971	.04389	.36803	2.01435
1.001	-2.998	.01830	.4500	.12410	.91250	-.07150	590.30000	.05042	.04768	.36280	2.05484
1.001	-1.354	.01490	.4504	.11500	.91340	-.07110	590.30000	.06083	.04467	.36366	1.93785
1.001	.084	.01110	.4500	.10620	.91320	-.07170	590.30000	.06135	.04485	.37066	1.93510
1.001	.1080	.00820	.4504	.10640	.91320	-.07110	590.30000	.06149	.04492	.37011	1.93236
1.001	.3133	.01000	.4500	.10550	.91360	-.06500	590.30000	.06166	.04484	.37041	1.93269
1.001	.5175	.02000	.4500	.10440	.91350	-.06830	590.30000	.06208	.04412	.36390	2.05544
1.001	.6202	.01000	.4500	.10260	.91380	-.06780	590.30000	.05944	.04745	.36330	2.12100
1.001	-.222	.02040	.4500	.10000	.91340	-.06660	590.30000	.05827	.04202	.36716	2.12693
1.001	9.272	.01560	.4500	.09780	.91350	-.06660	590.30000	.05666	.04114	.35463	2.03848
GRADIENT		-.00000	.00000	.00040	.00000	.00000	-.00000	.00021	.00018	.00026	-.00023

PUN NO. 73/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFG	Q	CAF	CAB	CCF	L/D
2.002	-5.415	.01190	.3630	.03650	.78480	-.05000	565.90000	.06411	.03239	.32859	1.96182
2.002	-5.364	.00870	.3630	.03780	.78150	-.04810	565.90000	.06423	.03255	.32861	1.95135
2.002	-1.328	.00910	.3630	.03720	.78180	-.04800	565.90000	.06472	.03248	.32820	1.95325
2.002	-.304	.00900	.3630	.03680	.78170	-.04810	565.90000	.06433	.03245	.32782	1.95761
2.002	.712	.00780	.3620	.03630	.78020	-.04760	565.90000	.06379	.03251	.32879	1.95933
2.002	.2757	.00860	.36180	.03600	.78090	-.04750	565.90000	.06271	.03309	.32001	1.96312
2.002	4.801	.01000	.36000	.03400	.78280	-.05000	565.90000	.06066	.03374	.32436	1.97360
2.002	5.815	.01080	.36110	.03400	.78160	-.05200	565.90000	.05908	.03492	.32352	1.97619
2.002	8.844	.01190	.36000	.03320	.78350	-.05290	565.90000	.05833	.03485	.32880	1.98107
2.002	8.887	.00910	.35900	.03220	.78010	-.05190	565.90000	.05780	.03440	.32412	1.98478
GRADIENT		.00020	-.00000	-.00044	.00000	-.00000	-.00000	-.00000	.00015	-.00033	.00277

ARC 97-747 04138 B C M F W V MOM. RN/L

(REK038) (04 APR 74)

REFERENCE DATA

BREF = 2.4210 38 FT. IMPR = 32.3010 IM.
 LBREF = 14.2440 IM. YML = .0000 IM.
 RBREF = 26.1006 IM. ZMRP = 11.2500 IM.
 SCALE = .0000 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AIRLON = .000 BDFLAP = -11.700
 SPDRK = 85.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 77/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
1.601	-1.494	-1.0910	.18240	.17940	-.11380	.58150	584.90000	.13974	.03966	.14266	-.59836
1.601	-1.169	-.95150	.17710	.17690	-.03200	.57050	584.90000	.13728	.03962	.13743	-.29074
1.601	1.379	.01810	.17360	.17310	.02230	.05820	584.90000	.13412	.03898	.13462	.10443
1.601	3.433	.11040	.17600	.16910	.12080	.04180	584.90000	.13008	.03972	.13708	.62744
1.601	5.500	.20290	.18410	.16380	.21960	.02310	584.90000	.12512	.03868	.14559	1.10210
1.601	7.570	.29200	.20070	.16030	.31590	.01010	584.90000	.12106	.03944	.16162	1.45480
1.601	9.637	.37260	.22130	.15580	.40440	.00120	584.90000	.11519	.04061	.18126	1.68374
1.601	12.730	.49700	.26370	.14960	.54330	-.01160	584.90000	.10820	.04140	.22226	1.87086
1.601	15.840	.62140	.32340	.14350	.68660	-.02480	584.90000	.09960	.04390	.28322	1.90918
1.601	18.940	.73890	.39820	.13670	.82820	-.03260	584.90000	.09067	.04603	.35458	1.85623
1.601	22.060	.84910	.48370	.12940	.96860	-.03680	584.90000	.08299	.04641	.44070	1.75537
1.601	25.170	.94970	.58090	.12190	1.10700	-.03910	584.90000	.07414	.04776	.53751	1.63490
1.601	29.090	1.04300	.71390	.11670	1.23500	-.02860	584.90000	.06405	.05255	.66807	1.46124
GRADIENT	.04460	-.00127	-.00212	.04766	-.00804	.00000		-.00197	-.00015	-.00108	.24973

RUN NO. 81/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
2.002	-1.443	-.09490	.16640	.16390	-.09910	.55430	575.40000	.13526	.02884	.13771	-.57073
2.002	-1.182	-.04960	.16240	.16230	-.05010	.54820	575.40000	.13357	.02873	.13373	-.30321
2.002	1.351	.00770	.15950	.15450	.01150	.54040	575.40000	.12995	.02935	.13019	.04852
2.002	3.414	.08270	.16090	.15570	.03210	.52970	575.40000	.12600	.02970	.13126	.51374
2.002	5.466	.15820	.16710	.15130	.17340	.51920	575.40000	.12254	.02926	.13800	.94637
2.002	7.517	.22980	.17920	.14710	.25120	.51110	575.40000	.11761	.02949	.14946	1.28536
2.002	9.580	.30280	.19560	.14240	.33120	.50350	575.40000	.11293	.02947	.16647	1.54972
2.002	12.670	.41090	.23160	.13590	.43170	.50000	575.40000	.10600	.02987	.20249	1.77450
2.002	15.770	.52160	.28310	.13070	.57690	-.00080	575.40000	.09833	.03237	.25196	1.94234
2.002	18.860	.62970	.34620	.12410	.70790	-.01240	575.40000	.09079	.03311	.31475	1.81174
2.002	21.990	.73330	.42220	.11700	.83800	-.01990	575.40000	.08300	.03471	.39275	1.72638
2.002	25.070	.83200	.51010	.10960	.96970	-.02690	575.40000	.07446	.03514	.47833	1.63067
2.002	28.980	.94440	.63370	.09690	1.10300	-.03050	575.40000	.06201	.03489	.61119	1.48994
GRADIENT	.03664	-.00110	-.00172	.03944	-.00511	.00000		-.00196	.00024	-.00132	.22427

ARC 97-747 04338 B C M F W L V MON. M/L

(REK040) (04 APR 74)

REFERENCE DATA

REF = 2.4210 38.0 FT. YMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 SREF = 28.1004 IN. ZMRP = 11.2300 IN.
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
 ALLROM = .000 BDFLAP = -11.700
 SPURK = 85.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 79/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLMFW	Q	CAF	CAB	COF	L/D
1.001	-5.043	.39770	.23020	.15650	.43210	-.00340	589.10000	.11396	.04254	.18726	1.73836
1.001	-3.916	.39070	.22870	.15630	.42490	-.00030	589.10000	.11371	.04259	.18376	1.71844
1.001	-.987	.39120	.22780	.15530	.42530	-.00100	589.10000	.11381	.04149	.18393	1.72786
1.001	.033	.39220	.22770	.15510	.42620	-.00140	589.10000	.11433	.04077	.18660	1.73225
1.001	1.051	.39480	.22630	.15520	.42860	-.00150	589.10000	.11413	.04107	.18682	1.73265
1.001	3.075	.39830	.23010	.15670	.43060	-.00070	589.10000	.11481	.04189	.18784	1.73226
1.001	9.118	.39900	.23100	.15720	.43340	-.00060	589.10000	.11526	.04194	.18876	1.73650
1.001	6.126	.40030	.23030	.15820	.43460	-.00060	589.10000	.11434	.04186	.18807	1.74829
1.001	7.154	.40220	.22890	.15450	.43690	-.00050	589.10000	.11281	.04169	.18694	1.75721
1.001	9.169	.40820	.22650	.15120	.44170	-.00460	589.10000	.10665	.04255	.18370	1.81174
GRADIENT		.00099	.00023	.00005	.00100	-.00008	-.00000	.00018	-.00012	.00035	.00257

RUN NO. 83/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLMFW	Q	CAF	CAB	COF	L/D
2.002	-5.422	.32350	.20500	.14510	.35440	.00380	579.90000	.11393	.03117	.17374	1.53396
2.002	-3.389	.32020	.20360	.14420	.35090	.00470	579.90000	.11376	.03044	.17297	1.57541
2.002	-1.361	.32000	.20170	.14250	.35040	.00420	579.90000	.11280	.02970	.17194	1.53225
2.002	-.342	.31880	.20060	.14160	.34900	.00420	579.90000	.11240	.02920	.17123	1.59513
2.002	.670	.31830	.19990	.14100	.34850	.00380	579.90000	.11174	.02926	.17056	1.53861
2.002	2.710	.31840	.20110	.14220	.34870	.00450	579.90000	.11147	.03073	.17033	1.57810
2.002	4.727	.31820	.20030	.14160	.34840	.00430	579.90000	.10950	.03210	.16834	1.59301
2.002	5.745	.32000	.20020	.14110	.35010	.00420	579.90000	.10839	.03271	.16714	1.60147
2.002	6.761	.32270	.19990	.14020	.35270	.00170	579.90000	.10695	.03335	.16457	1.61464
2.002	8.800	.32630	.19890	.13880	.35600	-.00260	579.90000	.10444	.03476	.16467	1.64470
GRADIENT		-.00027	-.00031	-.00025	-.00032	-.00002	.00000	-.00049	.00023	-.00053	.00014

DATE 16 JUL 74

TABLETED SOURCE DATA - 04338

PAGE 43

ARC 97-747 04338 B C M F W V MOM. RW/L

(IREK041) (04 APR 74)

REFERENCE DATA

REF = 2.4210 86-FT. HWRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 RREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHA = 20.000 ELEVON = .000
 AIRLON = .000 BOFLAP = -11.700
 SPDRK = 85.000 RUCCER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 99/ 0 RW/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
1.601	-5.249	.63210	.43510	.12663	.90360	-.03700	591.80000	.08115	.04345	.39716	1.88266
1.601	1.000	.93700	.41100	.12930	.92210	-.03600	591.80000	.08579	.04451	.39716	1.88266
1.601	1.601	.77640	.41950	.13270	.93980	-.03480	591.80000	.08721	.04549	.39716	1.88266
1.601	1.601	.67810	.42900	.13710	.95700	-.03350	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	.57810	.43850	.14150	.97420	-.03220	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	.47810	.44800	.14590	.99140	-.03090	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	.37810	.45750	.15030	.10060	-.02960	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	.27810	.46700	.15470	.10980	-.02830	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	.17810	.47650	.15910	.11900	-.02700	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	.07810	.48600	.16350	.12820	-.02570	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-.02190	.49550	.16790	.13740	-.02440	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-.12190	.50500	.17230	.14660	-.02310	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-.22190	.51450	.17670	.15580	-.02180	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-.32190	.52400	.18110	.16500	-.02050	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-.42190	.53350	.18550	.17420	-.01920	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-.52190	.54300	.18990	.18340	-.01790	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-.62190	.55250	.19430	.19260	-.01660	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-.72190	.56200	.19870	.20180	-.01530	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-.82190	.57150	.20310	.21100	-.01400	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-.92190	.58100	.20750	.22020	-.01270	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-1.02190	.59050	.21190	.22940	-.01140	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-1.12190	.60000	.21630	.23860	-.01010	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-1.22190	.60950	.22070	.24780	-.00880	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-1.32190	.61900	.22510	.25700	-.00750	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-1.42190	.62850	.22950	.26620	-.00620	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-1.52190	.63800	.23390	.27540	-.00490	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-1.62190	.64750	.23830	.28460	-.00360	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-1.72190	.65700	.24270	.29380	-.00230	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-1.82190	.66650	.24710	.30300	-.00100	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-1.92190	.67600	.25150	.31220	.00030	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-2.02190	.68550	.25590	.32140	.00160	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-2.12190	.69500	.26030	.33060	.00290	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-2.22190	.70450	.26470	.33980	.00420	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-2.32190	.71400	.26910	.34900	.00550	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-2.42190	.72350	.27350	.35820	.00680	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-2.52190	.73300	.27790	.36740	.00810	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-2.62190	.74250	.28230	.37660	.00940	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-2.72190	.75200	.28670	.38580	.01070	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-2.82190	.76150	.29110	.39500	.01200	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-2.92190	.77100	.29550	.40420	.01330	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-3.02190	.78050	.30000	.41340	.01460	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-3.12190	.79000	.30440	.42260	.01590	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-3.22190	.80000	.30880	.43180	.01720	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-3.32190	.80950	.31320	.44100	.01850	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-3.42190	.81900	.31760	.45020	.01980	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-3.52190	.82850	.32200	.45940	.02110	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-3.62190	.83800	.32640	.46860	.02240	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-3.72190	.84750	.33080	.47780	.02370	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-3.82190	.85700	.33520	.48700	.02500	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-3.92190	.86650	.33960	.49620	.02630	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-4.02190	.87600	.34400	.50540	.02760	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-4.12190	.88550	.34840	.51460	.02890	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-4.22190	.89500	.35280	.52380	.03020	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-4.32190	.90450	.35720	.53300	.03150	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-4.42190	.91400	.36160	.54220	.03280	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-4.52190	.92350	.36600	.55140	.03410	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-4.62190	.93300	.37040	.56060	.03540	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-4.72190	.94250	.37480	.56980	.03670	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-4.82190	.95200	.37920	.57900	.03800	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-4.92190	.96150	.38360	.58820	.03930	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-5.02190	.97100	.38800	.59740	.04060	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-5.12190	.98050	.39240	.60660	.04190	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-5.22190	.99000	.39680	.61580	.04320	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-5.32190	.99950	.40120	.62500	.04450	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-5.42190	1.00900	.40560	.63420	.04580	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-5.52190	1.01850	.41000	.64340	.04710	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-5.62190	1.02800	.41440	.65260	.04840	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-5.72190	1.03750	.41880	.66180	.04970	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-5.82190	1.04700	.42320	.67100	.05100	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-5.92190	1.05650	.42760	.68020	.05230	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-6.02190	1.06600	.43200	.68940	.05360	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-6.12190	1.07550	.43640	.69860	.05490	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-6.22190	1.08500	.44080	.70780	.05620	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-6.32190	1.09450	.44520	.71700	.05750	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-6.42190	1.10400	.44960	.72620	.05880	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-6.52190	1.11350	.45400	.73540	.06010	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-6.62190	1.12300	.45840	.74460	.06140	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-6.72190	1.13250	.46280	.75380	.06270	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-6.82190	1.14200	.46720	.76300	.06400	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-6.92190	1.15150	.47160	.77220	.06530	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-7.02190	1.16100	.47600	.78140	.06660	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-7.12190	1.17050	.48040	.79060	.06790	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-7.22190	1.18000	.48480	.80000	.06920	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-7.32190	1.18950	.48920	.80920	.07050	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-7.42190	1.19900	.49360	.81840	.07180	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-7.52190	1.20850	.49800	.82760	.07310	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-7.62190	1.21800	.50240	.83680	.07440	591.80000	.08729	.04591	.39716	1.88266
1.601	1.601	-7.72									

ARC 87-747 QAS38 S C M F MI V MOM. RM/L

(REK042) (04 APR 74)

REFERENCE DATA

ARC = 2.4210 90.0 FT. ZMRP = 32.3010 IN.
 LREF = 1.2445 IN. ZMRP = .0000 IN.
 ARC = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0005 SCALE

BETA = .000 ELEVOM = 15.000
 AIRLOM = 5.000 ECLAP = -11.700
 SCDRAV = 55.000 FUDDER = .000
 ELEV-L = 15.000 ELEV-R = 5.000

PARAMETRIC DATA

RUN NO. 83/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMP-0	Q	CAF	CAB	COF	L/D
1.001	-1.402	-0.0340	.16990	.16990	-.03000	.00000	598.10000	.12567	.04323	.12663	-1.20269
1.001	-1.106	.02200	.16750	.16760	.72150	-.00460	598.10000	.12445	.04311	.12438	.13162
1.001	1.263	-.00790	.16700	.16480	.09190	-.01150	598.10000	.12202	.04265	.12417	.12656
1.001	3.418	.17500	.17250	.16140	.18090	-.02950	598.10000	.11935	.04205	.13240	1.53809
1.001	5.495	.27100	.16420	.15750	.26820	-.04550	598.10000	.11678	.04132	.14114	1.47594
1.001	7.562	.35970	.20570	.15460	.32340	-.07850	598.10000	.11310	.04156	.16249	1.76164
1.001	9.616	.44360	.22910	.15160	.47660	-.09360	598.10000	.10951	.04250	.18712	1.97197
1.001	12.740	.56760	.27980	.14760	.61550	-.08270	598.10000	.10581	.04423	.23665	2.52807
1.001	15.850	.69800	.34670	.14280	.76660	-.02890	598.10000	.10207	.05051	.30191	2.61431
1.001	18.960	.81550	.42460	.13670	.90590	-.00760	598.10000	.10115	.04426	.36824	1.80005
1.001	22.060	.92460	.51560	.12970	1.03250	-.11330	598.10000	.09447	.04743	.47354	1.75602
1.001	25.210	1.02950	.62440	.12650	1.15700	-.11697	598.10000	.07966	.04714	.60129	1.64712
1.001	29.580	1.13500	.76900	.12270	1.27610	-.11260	598.10000	.07150	.04176	.72747	1.46571
GRADIENT		.00012	.00012	-.00187	.04019	-.00715	.00000	-.00191	-.00026	.00001	.00113

RUN NO. 86/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMP-0	Q	CAF	CAB	COF	L/D
2.002	-1.492	-.04170	.15480	.13360	-.04470	-.00230	586.00000	.12223	.03137	.11938	1.06984
2.002	-1.208	.00280	.15210	.13210	.00290	-.01060	586.00000	.12051	.03119	.11790	1.01571
2.002	1.359	-.00990	.15140	.13020	.00340	-.01000	586.00000	.11869	.03111	.11633	1.00647
2.002	3.359	.13960	.15610	.14720	.14000	-.01970	586.00000	.11654	.03145	.12467	1.03310
2.002	5.449	.20750	.16050	.14460	.22220	-.03150	586.00000	.11330	.03160	.13379	1.02013
2.002	7.521	.27670	.18010	.14190	.30090	-.04550	586.00000	.10957	.03183	.14890	1.00013
2.002	9.583	.33110	.20000	.13930	.37910	-.07120	586.00000	.10584	.03196	.16711	1.00146
2.002	12.650	.40030	.24100	.13150	.50380	-.05720	586.00000	.10214	.03246	.20300	1.01590
2.002	15.770	.47480	.29610	.12660	.63360	-.06420	586.00000	.09866	.03254	.26483	1.04071
2.002	18.870	.54950	.36410	.12360	.76450	-.07240	586.00000	.09508	.03260	.33116	1.07647
2.002	21.970	.62690	.44540	.11960	.89810	-.08110	586.00000	.09108	.03267	.41497	1.07090
2.002	25.120	.69240	.54350	.11560	1.03100	-.09080	586.00000	.08640	.03271	.51183	1.04218
2.002	28.260	.75000	.67750	.11040	1.16100	-.09960	586.00000	.08176	.03282	.64616	1.00590
GRADIENT		.00021	.00031	-.00126	.03966	-.00300	.00000	-.00128	.00002	.00000	.00324

DATE 16 JUL 74

TABULATED SOURCE DATA - OA338

PAGE 43

ARC 97-747 OA338 B C W F W1 V MOM. RN/L

(REK043) (04 APR 74)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3010 IN.
 LRFP = 14.2440 IN. YMRP = .0000 IN.
 BRFP = 20.1094 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

BETA = .000 ELEVOM = .000
 AIRLON = 15.000 BDFLAP = -11.700
 SPCBRK = 55.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = -15.000

PARAMETRIC DATA

RUN NO. 88/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
1.601	-1.495	-0.0400	.17690	.17460	-.04930	.04480	592.70000	.13377	.04083	.13601	-.47961
1.601	-1.193	-0.02830	.17350	.17320	-.02890	.03480	592.70000	.13270	.04050	.13280	-.16240
1.601	1.354	.03620	.17140	.17050	.04320	.02470	592.70000	.12992	.04753	.12584	.61027
1.601	3.429	.13370	.17450	.16640	.14030	.00870	592.70000	.12530	.04110	.11151	.74684
1.601	5.489	.02270	.17370	.16150	.13920	-.00680	592.70000	.12085	.04257	-.216	.21245
1.601	7.562	.13250	.17350	.17350	.13650	-.12130	592.70000	.11723	.04000	.05100	.135774
1.601	9.619	.29760	.20310	.15430	.09330	-.03260	592.70000	.12354	.04000	.08159	.177647
1.601	12.730	.52750	.1710	.14930	.07650	-.04830	592.70000	.10527	.04000	.12237	.132677
1.601	15.845	.65120	.33260	.14230	.07720	-.16180	592.70000	.09012	.04410	.25015	.197734
1.601	18.950	.76980	.40650	.13400	.05020	-.07040	592.70000	.09010	.04462	.36463	.169276
1.601	22.060	.87950	.49610	.12950	1.0100	-.07470	592.70000	.08363	.04157	.40146	1.77203
1.601	25.180	.99340	.60160	.12600	1.14600	-.07870	592.70000	.07796	.04004	.55111	1.63478
1.601	29.310	1.08100	.73730	.11950	1.30400	-.06930	592.70000	.06950	.05120	.65423	1.46294
GRADIENT	.04380	-.00245	-.00170	-.00170	.04686	-.00730	-.00000	-.00177	.00007	-.00246	.25550

RUN NO. 89/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
2.002	-1.495	-.07980	.15800	.15530	-.08390	.02300	584.50000	.12675	.02915	.12889	-.50497
2.002	-.201	-.03380	.15400	.15390	-.03430	.01690	584.50000	.12449	.02941	.12451	-.21919
2.002	1.341	.02240	.15210	.15150	.02590	.00980	584.50000	.12197	.02953	.12254	.14696
2.002	3.397	.09850	.15440	.14830	.10750	-.00030	584.50000	.11867	.02963	.12483	.63807
2.002	5.448	.17090	.16160	.14460	.18540	-.01000	584.50000	.11475	.02985	.13184	1.05747
2.002	7.500	.24630	.17490	.14120	.26710	-.01890	584.50000	.11071	.03049	.14463	1.40938
2.002	9.582	.32080	.19320	.13710	.34850	-.02320	584.50000	.10702	.03008	.16354	1.86056
2.002	12.660	.42960	.23100	.13120	.46980	-.03110	584.50000	.10043	.03077	.20296	1.86005
2.002	15.800	.54460	.28310	.12610	.60170	-.03790	584.50000	.09401	.03209	.25429	1.90987
2.002	18.880	.65390	.35110	.12090	.73230	-.04580	584.50000	.08824	.03266	.32022	1.85228
2.002	21.950	.73700	.42870	.11470	.86240	-.05380	584.50000	.08154	.03316	.39799	1.76563
2.002	25.080	.85930	.52330	.10970	1.00000	-.06240	584.50000	.07454	.03516	.49140	1.64211
2.002	28.950	.97600	.63450	.09950	1.17100	-.07030	584.50000	.06454	.03490	.62398	1.49115
GRADIENT	.03648	-.00068	-.00155	-.00155	.03915	-.00475	-.00000	-.00155	.00009	-.00077	.23438

ARC 97-747 0A538 B C M F W1 V NOM. RN/L

(IRK044) (04 APR 74)

REFERENCE DATA

SRFP = 2.4210 SQ.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRFP = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .3300 SCALE

BETA = .000 ELEVOM = -10.000
 AIRLOW = 15.000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEV-L = 5.000 ELEV-R = -25.000

RUN NO. 91/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWD	Q	CAF	CAB	CDF	L/D
1.000	-1.469	-1.4020	.17720	.17360	-.14470	.07970	600.20000	.13509	.03851	.13875	-.79097
1.000	-.194	-.08290	.17200	.17170	-.08350	.06950	600.20000	.13298	.03872	.13326	-.48214
1.000	1.365	-.01020	.16840	.16860	-.03660	.05660	600.20000	.12975	.03885	.12957	-.05947
1.000	3.428	.08370	.16950	.16420	.09370	.04150	600.20000	.12533	.03887	.13071	-.49386
1.000	5.488	.17410	.17640	.15890	.19020	.02650	600.20000	.12009	.03891	.13773	.98735
1.000	7.526	.26100	.19100	.15510	.28370	.01400	600.20000	.11560	.03950	.13176	1.36675
1.000	9.658	.34840	.21190	.15080	.37890	.00180	600.20000	.11032	.04048	.12001	1.64405
1.000	12.710	.47210	.25350	.14340	.51630	-.01110	600.20000	.10220	.04120	.11329	1.82246
1.000	15.850	.60390	.31320	.13660	.66640	-.02540	600.20000	.09262	.04458	.27032	1.92803
1.000	18.950	.72340	.38580	.13000	.80940	-.03210	600.20000	.08431	.04569	.34259	1.87484
1.000	22.090	.85480	.47230	.12370	.95110	-.03650	600.20000	.07575	.04755	.42786	1.76747
1.000	25.180	.93970	.57120	.11710	1.09350	-.04150	600.20000	.06723	.04987	.52588	1.64503
1.000	29.110	1.03900	.70820	.11120	1.23200	-.02950	600.20000	.05507	.05213	.66070	1.47225
GRADIENT		.04582	-.00153	-.00194	.04878	-.00786	-.00000	-.00221	.00007	-.00159	.26373

RUN NO. 90/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWD	Q	CAF	CAB	CDF	L/D
2.002	-1.459	-1.1410	.16170	.15870	-.11820	.04780	565.80000	.13007	.02863	.13304	-.70594
2.002	-.198	-.06870	.15830	.15610	-.06920	.04150	565.80000	.12703	.02907	.12727	-.43317
2.002	1.357	-.05980	.15330	.15350	-.06620	.03410	565.80000	.12416	.02934	.12398	-.05414
2.002	3.580	.06530	.15310	.14900	.07420	.02440	565.80000	.11949	.02951	.12365	.42639
2.002	5.450	.14030	.15880	.14470	.15470	.01410	565.80000	.11490	.02980	.12907	.88157
2.002	7.498	.21260	.16960	.14040	.23290	.00660	565.80000	.11027	.03015	.13972	1.25353
2.002	9.556	.28340	.18350	.13540	.31230	.00050	565.80000	.10550	.03010	.15568	1.54013
2.002	12.640	.39450	.21970	.12810	.43310	-.00390	565.80000	.09597	.03115	.18939	1.79540
2.002	15.750	.50400	.26890	.12220	.58800	-.00810	565.80000	.08562	.03268	.23745	1.87421
2.002	18.810	.61220	.33150	.11620	.69530	-.01440	565.80000	.08193	.03427	.29884	1.84793
2.002	21.950	.71630	.40610	.10890	.81620	-.02080	565.80000	.07795	.03495	.37368	1.76392
2.002	25.060	.81860	.49490	.10150	.95120	-.02800	565.80000	.06945	.03605	.46219	1.65440
2.002	28.940	.92950	.61750	.09060	1.11200	-.03190	565.80000	.05526	.03534	.58645	1.50524
GRADIENT		.03717	-.00170	-.00198	.03984	-.00481	.00000	-.00216	.00010	-.00186	.25332

DATE 16 JUL

TABULATED SOURCE DATA - 04338

PAGE 45

AR 37 347 0-338 B C M F W I V NOM. RN/L

(REK045) (04 APR 74)

REFERENCE DATA

SREF = 2.4810 88-FT. YMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 20.1004 IN. YMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = -20.000
 AILEOM = 5.000 BDFAP = -11.700
 SPBRK = 35.000 RUDDER = .000
 ELEV-L = -15.000 ELEV-R = -35.000

RUN NO. 35/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMF40	Q	CAF	CAB	CDF	L/D
1.000	-1.478	-1.3860	.14490	.17580	-.120150	.11830	598.40000	.14863	.03717	.14778	-1.06412
1.000	-1.198	-1.3900	.17300	.17750	-.13960	.10830	598.40000	.13862	.03788	.14011	-.78001
1.000	1.300	-.06300	.17280	.17440	-.106870	.09630	598.40000	.13867	.03743	.13741	-.40341
1.000	3.433	.2500	.17190	.16930	.03380	.08050	598.40000	.14	.04076	.11004	.14938
1.000	4.404	.25300	.17400	.16400	.13720	.05500	598.40000	.1164	.04030	.1019	.168547
1.000	5.72	.2500	.1700	.1600	.13100	.02000	598.40000	.11000	.04000	.10000	.111116
1.000	9.342	.43500	.17000	.15300	.02690	.03940	598.40000	.11225	.04000	.10000	.142461
1.000	11.720	.42400	.17430	.14500	.06830	.02470	598.40000	.10359	.04241	.10118	.17736
1.000	13.830	.35420	.17430	.13500	.06140	.01340	598.40000	.09140	.04430	.10167	.185226
1.000	16.923	.61270	.36660	.12830	.75530	.00810	598.40000	.08140	.04720	.10190	.183344
1.000	22.120	.79570	.45000	.12120	.89740	.00350	598.40000	.07126	.04994	.10593	.174508
1.000	25.160	.68750	.54230	.1400	1.03430	.00190	598.40000	.06379	.05121	.10644	.167435
1.000	29.100	.98840	.67260	.15670	1.19100	.01470	598.40000	.05370	.05300	.10614	.147019
GRADIENT	.04557	-.00263	-.00204	.04862	-.00775	.01000		-.00257	.00033	-.00316	.24960

RUN NO. 32/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMF40	Q	CAF	CAB	CDF	L/D
2.002	-1.478	-.13530	.16540	.16130	-.15950	.07710	565.40000	.13476	.02654	.13883	-.93915
2.002	-2.209	-.10590	.15810	.15770	-.10650	.06980	565.40000	.13135	.02635	.13174	-.87092
2.002	1.336	-.04870	.15380	.15490	-.04310	.06310	565.40000	.12789	.02701	.12680	-.31663
2.002	3.368	.02720	.15170	.14980	.03610	.05240	565.40000	.12250	.02730	.12441	.17959
2.002	5.484	.10440	.15340	.14470	.11870	.04170	565.40000	.11696	.02774	.12773	.67194
2.002	7.520	.17930	.16430	.13940	.19920	.03310	565.40000	.11101	.02839	.13512	1.09114
2.002	9.522	.24990	.17740	.13360	.27580	.02760	565.40000	.10539	.02821	.14956	1.40880
2.002	12.630	.36010	.20980	.12600	.39730	.02360	565.40000	.09665	.02935	.16118	1.71639
2.002	15.730	.47260	.25780	.12000	.52460	.01900	565.40000	.08800	.03200	.22698	1.83339
2.002	18.840	.58010	.31710	.11270	.65140	.01400	565.40000	.07862	.03308	.29571	1.82990
2.002	21.930	.68180	.38810	.10510	.77740	.00930	565.40000	.07130	.03380	.35672	1.75679
2.002	25.010	.78210	.47170	.09680	.90820	.00370	565.40000	.06176	.03504	.43994	1.65812
2.002	28.930	.89350	.59170	.08530	1.06800	.00290	565.40000	.05000	.03530	.56071	1.50989
GRADIENT	.03758	-.00272	-.00232	.04028	-.00502	.00000		-.00251	.00019	-.00289	.23148

ARC 97-747 04538 B C M F W L V MOM. RN/L

(REK046) (04 APR 74)

REFERENCE DATA

SRCP = 2.4210 30.FT. XMRP = 32.3010 IN.
 LRCP = 14.2440 IN. YMRP = .0000 IN.
 BRCP = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHA = .000 ELEVOM = .000
 AIRLON = .000 BOFLAP = -11.700
 SPCBRK = 85.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 94/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMPW	Q	CAF	CAB	COF	L/D
1.001	-5.159	-.04660	.17590	.17590	-.04710	.06340	589.70000	.13348	.04232	.13348	-.26792
1.001	-3.103	-.04910	.17750	.17750	-.04960	.06760	589.70000	.13607	.04113	.13607	-.27991
1.001	-1.042	-.04880	.17680	.17670	-.04920	.06850	589.70000	.13675	.03995	.13675	-.27844
1.001	-.012	-.04580	.17610	.17600	-.04630	.06790	589.70000	.13641	.03959	.13641	-.26307
1.001	1.012	-.04770	.17690	.17680	-.04830	.06850	589.70000	.13699	.03981	.13699	-.27319
1.001	3.079	-.04730	.17850	.17850	-.04790	.06830	589.70000	.13733	.04097	.13733	-.26865
1.001	5.143	-.04640	.17860	.17840	-.04710	.06720	589.70000	.13655	.04185	.13655	-.26401
	GRADIENT	.00032	.00018	.00017	.00029	.00010	-.00000	.00019	-.00003	.00019	.00190

RUN NO. 99/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMPW	Q	CAF	CAB	COF	L/D
2.002	-5.349	-.04510	.16120	.16110	-.04560	.04080	583.70000	.13033	.03077	.13033	-.26375
2.003	-3.478	-.04850	.16320	.16310	-.04890	.04570	583.70000	.13324	.02986	.13324	-.26982
2.002	-1.418	-.04710	.16320	.16310	-.04760	.04720	583.70000	.13386	.02924	.13386	-.29185
2.003	-.391	-.04690	.16300	.16280	-.04750	.04750	583.70000	.13369	.02911	.13369	-.29177
2.003	.840	-.04800	.16300	.16280	-.04860	.04730	583.70000	.13319	.02961	.13319	-.29453
2.003	2.700	-.04530	.16360	.16340	-.04580	.04730	583.70000	.13296	.03044	.13296	-.28029
2.002	4.766	-.04250	.16290	.16270	-.04310	.04420	583.70000	.13130	.03140	.13130	-.26450
	GRADIENT	.00067	-.00001	-.00002	.00065	-.00016	-.00000	-.00024	.00022	-.00024	.00396

DATE 14 JUL 74

TABULATED SOURCE DATA - 04538

PAGE 47

ARC 97-747 04538 B C M F W I V NOM. RM/L

(REK047) (04 APR 74)

REFERENCE

PARAMETRIC DATA

BREF = 2.4210 84.FT
 LREF = 14.2440 IN.
 BREF = 28.1904 IN.
 SCALE = .0300 SCALE

ALPHA = 10.000
 AILROM = .000
 SPDRK = 85.000
 ELEV-L = .000
 ELEVOM = .000
 RUDDER = -11.700
 ELEV-R = -10.000

RJN NO. 95/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFW	Q	CAF	CAB	CDF	L/D
1.001	-5.541	.4710	.2990	.19540	.43890	-.00410	590.90000	.11285	.74255	.18680	1.75998
1.001	5.515	.3320	.2870	.19530	.43200	-.00200	590.90000	.11299	.74231	.18594	1.74202
1.001	-1.936	.3010	.2970	.19440	.42910	-.00260	590.90000	.11332	.74089	.18631	1.74683
1.001	.023	.2770	.2270	.19400	.42700	-.00290	590.90000	.11195	.74015	.18591	1.75487
1.001	1.744	.1930	.2270	.19400	.42700	-.00190	590.90000	.11196	.74024	.18541	1.74276
1.001	3.073	.5950	.2290	.19500	.42700	-.00190	590.90000	.11271	.74127	.18535	1.74173
1.001	3.097	.4000	.2370	.19600	.43480	-.00270	590.90000	.11273	.74187	.18641	1.74535
1.001	7.137	.4320	.2200	.19400	.43420	-.00220	590.90000	.11296	.74144	.18199	1.76805
1.001	9.170	.4560	.2260	.19100	.43250	-.00330	590.90000	.10962	.74199	.18426	1.80193
GRADIENT	-1.00002	.00003	.00003	.00003	-.00002	.00005	-.00000	.00022	-.00019	.00021	-.00005

RJN NO. 98/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFW	Q	CAF	CAB	CDF	L/D
2.003	-5.417	.32770	.26190	.14130	.35800	-.00270	583.30000	.11226	.73104	.17075	1.62937
2.003	-3.377	.32240	.26170	.14200	.35280	-.00430	583.30000	.11182	.73018	.17136	1.60504
2.002	-1.339	.32240	.25560	.14090	.35260	-.00430	583.30000	.11142	.72948	.17096	1.61398
2.003	-3.348	.32430	.20050	.14060	.35450	-.00400	583.30000	.11144	.72916	.17131	1.62332
2.003	.668	.32280	.20030	.14060	.35300	-.00430	583.30000	.11141	.72919	.17102	1.61804
2.003	2.694	.32240	.20190	.14230	.35280	-.00530	583.30000	.11176	.73054	.17133	1.60242
2.003	4.724	.32370	.20310	.14320	.35430	-.00520	583.30000	.11136	.73184	.17119	1.59967
2.003	5.757	.32260	.20270	.14310	.35310	-.00340	583.30000	.10983	.73327	.16948	1.59684
2.003	8.795	.32700	.20230	.14200	.35740	-.00000	583.30000	.10784	.73416	.16826	1.62112
GRADIENT	.00009	.00022	.00022	.00021	.00013	.00016	.00000	-.00003	.00023	-.00000	-.00137

ARC 97-747 QAS38 B C M F W1 V NOM. RN/L (REK048) (04 APR 74)

REFERENCE DATA

REF = 2.4210 36.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0040 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 ELEVON = .000
 AILRON = .000 BDFLAP = -11.700
 SPDBRK = 85.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 96/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMPWD	Q	CAF	CAB	CDF	L/D
1.601	-5.046	.80270	.43490	.12610	.90410	-.03670	592.70000	.08242	.04368	.38667	1.88548
1.601	-3.001	.79910	.43710	.12950	.90160	-.03430	592.70000	.08357	.04393	.38878	1.86703
1.601	-.954	.79810	.44030	.13270	.90180	-.03440	592.70000	.08701	.04569	.39020	1.85170
1.601	.063	.79920	.44030	.13220	.90280	-.03380	592.70000	.08651	.04569	.39007	1.85481
1.601	1.091	.79820	.43900	.13130	.90140	-.03640	592.70000	.08603	.04527	.38914	1.85817
1.601	3.131	.80120	.43780	.12900	.90390	-.03730	592.70000	.08403	.04497	.38812	1.87110
1.601	5.177	.80310	.43600	.12650	.90500	-.03390	592.70000	.08233	.04417	.38689	1.88412
1.601	7.225	.80540	.43010	.12020	.90510	-.03490	592.70000	.07707	.04313	.38199	1.91569
1.601	9.282	.80650	.42380	.11400	.90390	-.04320	592.70000	.07200	.04200	.37681	1.94678
GRADIENT	.00031	.00004	-.00014	.00032	.00054	-.00054	.00000	-.00027	.00013	-.00015	.00091

RUN NO. 97/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMPWD	Q	CAF	CAB	CDF	L/D
2.002	-5.413	.68350	.37560	.11370	.77150	-.02090	583.70000	.08156	.03214	.34051	1.95073
2.002	-3.365	.67930	.37820	.11760	.76850	-.01690	583.70000	.08499	.03261	.34271	1.82632
2.002	-1.322	.67780	.38010	.11980	.76780	-.01510	583.70000	.08641	.03339	.34381	1.81386
2.002	-.307	.67990	.37980	.11870	.76970	-.01720	583.70000	.08510	.03360	.34322	1.82149
2.002	.714	.68280	.38010	.11790	.77260	-.01800	583.70000	.08412	.03378	.34329	1.82832
2.003	2.756	.68560	.37690	.11570	.77470	-.02070	583.70000	.08197	.03373	.34199	1.84221
2.002	4.800	.69200	.37780	.11240	.78040	-.02400	583.70000	.07849	.03391	.34067	1.86531
2.003	6.840	.69420	.37510	.10960	.78150	-.03060	583.70000	.07453	.03467	.33733	1.88433
2.003	8.886	.69360	.37140	.10390	.77970	-.03320	583.70000	.07167	.03423	.33402	1.91152
GRADIENT	.00167	-.00011	-.00074	.00154	.00095	-.00095	.00000	-.00088	.00014	-.00030	.00536

AR. 37-747 QAS3B B C M F W1 V MOM. RN/L SEAL.EL

(BEK049) (04 APR 74)

REFERENCE DATA

SREF = 2.4210 50.FT. XMPF = 32.3010 IN.
 LREF = 14.2445 IN. YMRP = .0000 IN.
 BREF = 20.1504 IN. ZMPF = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000
 AILROM = .000 BDFLAP = 16.300
 SPCBRK = 55.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = 15.000

PUN NO. 105/ 5 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFD	Q	CAF	CAB	CDF	L/D
1.001	-1.466	.02155	.17480	.17530	.51700	-.04310	590.60000	.13271	.04259	.13224	.12287
1.001	-1.197	.07450	.17450	.17450	.57430	-.05290	590.60000	.13202	.04258	.13176	.12562
1.001	1.351	.14490	.17650	.17210	.14900	-.06640	590.60000	.13081	.04219	.13429	.12101
1.001	3.413	.23760	.18450	.16950	.24920	-.08340	590.60000	.12835	.04145	.14290	.12896
1.001	5.479	.33550	.19420	.16450	.34750	-.10570	590.60000	.12530	.04150	.15791	.12564
1.001	7.544	.43190	.20140	.16110	.44750	-.13150	590.60000	.12177	.04233	.16445	.12887
1.001	9.616	.52580	.20410	.16430	.54130	-.16150	590.60000	.12264	.04766	.17347	.13079
1.001	12.730	.61460	.20450	.16280	.63800	-.19470	590.60000	.11771	.04449	.18555	.12456
1.001	15.880	.69480	.20360	.16220	.74200	-.23680	590.60000	.11594	.04276	.19569	.12442
1.001	18.940	.76450	.20170	.16210	.85400	-.28820	590.60000	.11565	.04775	.20465	.12817
1.001	22.010	.82350	.20000	.16130	.97400	-.35250	590.60000	.11740	.05790	.21299	.12414
1.001	25.170	.87100	.20000	.16050	1.09900	-.43310	590.60000	.12058	.06602	.22052	.12074
1.001	28.090	.90500	.20000	.16020	1.24600	-.53350	590.60000	.12573	.05647	.22871	.12050
GRADIENT	.04444	.00820	.00114	-.00114	.04753	-.00831	.00000	-.00595	-.00024	.00224	.28956

PUN NO. 101/ 5 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFD	Q	CAF	CAB	CDF	L/D
2.002	-1.470	-.00265	.15820	.15610	-.00670	-.04050	580.10000	.12720	.03090	.12733	-.01670
2.002	-2.213	.04240	.15780	.15790	.04180	-.04720	580.10000	.12671	.03119	.12655	.26870
2.002	1.338	.13240	.15930	.15680	.10610	-.05570	580.10000	.12320	.03160	.12765	.64314
2.002	3.369	.17800	.16350	.15470	.18750	-.06750	580.10000	.12337	.03133	.13424	1.07560
2.002	5.445	.23060	.17720	.15260	.26630	-.07930	580.10000	.12141	.03119	.14513	1.41448
2.002	7.498	.28540	.19430	.15020	.34800	-.08930	580.10000	.11966	.03054	.16405	1.67463
2.002	9.553	.33820	.21690	.14780	.42870	-.09710	580.10000	.11726	.03054	.18678	1.83601
2.002	12.650	.38080	.26230	.14410	.53580	-.10700	580.10000	.11283	.03127	.23181	1.94706
2.002	15.750	.42970	.32390	.14190	.69020	-.11880	580.10000	.10942	.03248	.29266	1.93186
2.002	18.850	.47920	.40090	.14030	.82910	-.13220	580.10000	.10837	.03413	.36554	1.84423
2.002	21.950	.52430	.48970	.13860	.96610	-.14610	580.10000	.10320	.03552	.45692	1.72411
2.002	25.050	.56020	.59490	.13660	1.11300	-.16370	580.10000	.09914	.03746	.56107	1.59742
2.002	28.970	.60730	.74560	.12890	1.27900	-.18300	580.10000	.09116	.03734	.70796	1.44806
GRADIENT	.03732	.00154	-.00072	.04512	-.00536	-.00536	.00000	-.00882	.00009	.00145	.22585

ARC 97-747 Q4338 B C M F W I Y MOM. RN/L SEAL.EL

(REK030) (04 APR 74)

REFERENCE DATA

SRF = 2.4210 96.FT. XMRP = 32.3010 IM.
 LREF = 14.2440 IM. YMRP = .0000 IM.
 BRF = 20.1004 IM. ZMRP = 11.2500 IM.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AIRLON = .000 BDFAP = 16.300
 SPDBRK = 55.000 PUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 102/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CM	CLMFWO	Q	CAF	CAB	CDP	L/D
1.000	-1.471	-.06580	.16370	.16190	-.07000	.02310	585.00000	.11985	.04205	.12161	-.45222
1.000	-.196	-.00910	.16050	.16040	-.00970	.01390	585.00000	.11840	.04200	.11843	-.05701
1.000	1.370	.06310	.15930	.15770	.06690	.00820	585.00000	.11638	.04132	.11794	.39829
1.000	3.421	.15560	.16300	.15340	.16520	-.01710	585.00000	.11295	.04745	.12261	.95362
1.000	5.463	.24830	.17310	.14860	.26360	-.03420	585.00000	.10999	.03951	.13360	1.43483
1.000	7.525	.33390	.19120	.14760	.35810	-.04750	585.00000	.10483	.04077	.15032	1.75666
1.000	9.597	.42120	.21580	.14250	.45130	-.05970	585.00000	.10121	.04109	.15503	1.95243
1.000	12.730	.54370	.26520	.13890	.58880	-.07370	585.00000	.09497	.04392	.22238	2.04998
1.000	15.810	.67150	.32950	.13410	.73590	-.08860	585.00000	.08876	.04534	.28550	2.13784
1.000	18.930	.79340	.40870	.12920	.88310	-.09980	585.00000	.08262	.04658	.37404	1.94123
1.000	22.040	.90590	.49590	.12410	1.02500	-.10790	585.00000	.07603	.04837	.45510	1.80826
1.000	25.150	1.00600	.60550	.12040	1.16900	-.11280	585.00000	.06973	.05067	.55515	1.65135
1.000	29.050	1.09700	.74190	.11580	1.31300	-.10090	585.00000	.06197	.05337	.68465	1.47881
GRADIENT	.04538	-.00010	-.00010	-.00176	.04816	-.00863	-.00000	-.00141	-.00033	.00027	.02860

RUN NO. 103/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CM	CLMFWO	Q	CAF	CAB	CDP	L/D
2.002	-1.472	-.06330	.15030	.14860	-.06730	.00550	578.40000	.11764	.03096	.11933	-.42224
2.002	-.127	-.01780	.14750	.14740	-.01840	.00010	578.40000	.11617	.03123	.11624	-.12082
2.002	1.354	.04240	.14620	.14310	.04590	-.00890	578.40000	.11389	.03150	.11485	.29033
2.002	3.396	.11770	.14850	.14120	.12630	-.01980	578.40000	.10753	.03067	.11762	.75304
2.002	5.409	.19210	.15700	.13820	.20600	-.03070	578.40000	.10762	.03018	.12656	1.22086
2.002	7.500	.26780	.17110	.13460	.28780	-.04010	578.40000	.10420	.03040	.14081	1.56377
2.002	9.546	.34590	.18950	.13330	.36760	-.04670	578.40000	.10043	.02987	.16000	1.79933
2.002	12.650	.45170	.22910	.12460	.49590	-.05380	578.40000	.09399	.03051	.19922	1.97175
2.002	15.770	.56510	.29480	.12000	.62120	-.06110	578.40000	.08554	.03206	.25403	1.56138
2.002	18.840	.67210	.35250	.11690	.75000	-.06820	578.40000	.08001	.03335	.32079	1.30478
2.002	19.880	.70810	.37940	.11590	.79500	-.07160	578.40000	.08137	.03433	.35466	1.06693
2.002	21.960	.77690	.43470	.11260	.89310	-.07780	578.40000	.07719	.03541	.41193	1.18136
2.002	25.080	.87950	.52980	.10710	1.02100	-.08810	578.40000	.07006	.03734	.47824	1.65980
2.002	28.970	.99400	.66030	.09620	1.18900	-.09880	578.40000	.05945	.03675	.62791	1.30337
GRADIENT	.03730	-.00033	-.00033	-.00154	.03985	-.00543	.00000	-.00147	-.00036	-.00027	.02869

DATE 18 JUL 74

TABULATED SOURCE DATA - Q4338

ARC 97-747 Q4338 B C M F Wt V MOM, RN/L

(AERD01) (12 MAR 74)

PAGE 31

REFERENCE DATA

BREF = 2.4215 88.FT. WHP = 32.3010 IM.
 LREF = 14.2445 IM. WHP = .0000 IM.
 DBEF = 26.1004 IM. WHP = 11.2500 IM.
 SCALE = .0000 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 ALPOM = .000 BOFLAP = 22.000
 SPDBK = 33.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

PUN NO. 1/ 5 PN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWC	CT	CYN	CBL	CYV	CYNV	PCP/L	Q	CBLV
1.001	-1.514	.00120	.00360	.00080	-.00040	-.00200	.00040	.72640	598.40000	.00010
1.001	-1.145	.00140	.00350	.00070	-.00050	-.00100	.00040	-1.63100	598.40000	-.00100
1.001	2.948	.00210	.00360	.00060	-.00060	-.00200	.00070	.88800	598.40000	.00000
1.001	6.046	.00140	.00350	.00050	-.00060	-.00210	.00080	.95000	598.40000	.00010
1.001	9.148	.00120	.00320	.00040	-.00060	-.00200	.00090	.89000	598.40000	-.00010
1.001	12.250	.00100	.00300	.00030	-.00070	-.00190	.00090	.84400	598.40000	-.00020
1.001	15.350	.00080	.00280	.00020	-.00080	-.00180	.00090	.80100	598.40000	-.00030
1.001	18.450	.00060	.00260	.00010	-.00090	-.00170	.00090	.76100	598.40000	-.00040
1.001	21.550	.00040	.00240	.00000	-.00100	-.00160	.00090	.72600	598.40000	-.00050
1.001	24.650	.00020	.00220	.00000	-.00110	-.00150	.00080	.69700	598.40000	-.00060
1.001	27.750	.00000	.00200	.00000	-.00120	-.00140	.00070	.67200	598.40000	-.00070
GRADIENT		.00000	.00000	.00000	-.00000	.00000	.00000	.00000	.00000	.00000

PUN NO. 2/ 5 PN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWC	CT	CYN	CBL	CYV	CYNV	PCP/L	Q	CBLV
2.002	-1.505	.00140	.00680	.00170	-.00000	.00000	-.00070	.62510	588.90000	.00000
2.002	-1.162	.00160	.00630	.00150	.00000	-.00000	-.00040	.65160	588.90000	.00000
2.002	2.925	.00240	.00550	.00180	-.00000	-.00010	.00010	.71050	588.90000	.00000
2.002	6.010	.00130	.00500	.00180	-.00040	-.00100	.00020	.69600	588.90000	.00000
2.002	9.097	.00140	.00500	.00180	-.00040	-.00100	.00010	.68840	588.90000	.00000
2.002	12.190	.00120	.00500	.00180	-.00000	-.00100	.00000	.68010	588.90000	.00000
2.002	15.290	.00090	.00500	.00190	-.00020	-.00090	.00000	.67470	588.90000	.00000
2.002	18.390	.00070	.00500	.00200	-.00030	-.00090	.00000	.66960	588.90000	-.00000
2.002	21.490	.00040	.00450	.00200	-.00040	-.00090	.00000	.66070	588.90000	-.00000
2.002	24.590	.00020	.00410	.00200	-.00040	-.00090	.00000	.65740	588.90000	-.00000
2.002	27.690	.00000	.00360	.00200	-.00050	-.00090	.00000	.65390	588.90000	-.00000
GRADIENT		.00000	.00000	.00000	-.00000	-.00000	.00000	.00000	.00000	.00000

(AER002) (12 MAR 74)

REFERENCE DATA

REF = 2.4210 96-FT. ZMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 RREF = 28.1004 IN. ZMRP = 11.170 IN.
 SCALE = .0000 SCALE

BETA = .000 ELEVOM = -10.000
 AIRLON = .000 BDFLAP = -11.700
 SPDBR = 39.000 RUDDER = .000
 ELEV-L = -10.000 ELEV-R = -10.000

PARAMETRIC DATA

RUN NO. 3/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMP/L	CY	CYN	CBL	CVY	CYNV	XCP/L	Q	CBV
1.001	-1.495	.09050	.00830	-.00010	-.00080	.00190	-.00100	.84630	590.00000	.00080
1.001	-1.146	.07960	.00800	-.00010	-.00090	.00150	-.00090	.91220	590.00000	.00080
1.001	2.948	.05380	.00720	.00090	-.00060	.00170	-.00090	.27650	590.00000	.00070
1.001	6.048	.03410	.00510	.00090	-.00050	.00060	-.00060	.47120	590.00000	.00060
1.001	9.174	.01500	.00320	.00080	-.00010	.00080	-.00050	.61690	590.00000	.00050
1.001	12.250	.00560	.00190	.00070	-.00030	.00050	-.00030	.63220	590.00000	.00040
1.001	15.360	-.01020	.00190	.00100	.00080	.00010	-.00030	.63870	590.00000	.00030
1.001	18.480	-.01620	.00190	.00120	.00090	-.00090	.00010	.64090	590.00000	.00010
1.001	21.590	-.02540	.00190	.00150	.00020	-.00230	.00060	.64150	590.00000	-.00020
1.001	24.710	-.02590	.00190	.00190	-.00020	-.00350	.00120	.64110	590.00000	-.00060
1.001	27.820	-.00900	.00370	.00140	.00010	-.00330	.00140	.63560	590.00000	-.00080
GRADIENT		-.00779	-.00023	.00015	.00005	-.00003	.00002	-.14366	.00000	-.00002

RUN NO. 4/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMP/L	CY	CYN	CBL	CVY	CYNV	XCP/L	Q	CBV
2.002	-1.528	.05410	.01230	.00120	.00020	.00440	-.00020	.78770	585.20000	.00150
2.002	-1.155	.04740	.00800	.00120	.00000	.00270	-.00040	.87170	585.20000	.00110
2.002	2.928	.03220	.00590	.00140	-.00040	.00290	-.00030	.39640	585.20000	.00100
2.002	6.026	.01020	.00360	.00170	-.00030	.00190	-.00090	.19350	585.20000	.00080
2.002	9.103	.00840	.00340	.00180	-.00050	.00150	-.00050	.62250	585.20000	.00070
2.002	12.190	.00460	.00620	.00170	-.00050	.00190	-.00070	.62860	585.20000	.00060
2.002	15.300	.00080	.00640	.00190	-.00090	.00010	-.00020	.63220	585.20000	.00030
2.002	21.900	-.02820	.00590	.00230	-.00040	-.00250	.00030	.63650	585.20000	-.00050
2.002	24.620	-.01360	.00620	.00250	-.00060	-.00250	.00100	.63890	585.20000	-.00060
2.002	27.710	-.01370	.00430	.00220	.00000	-.00260	.00120	.63800	585.20000	-.00080
GRADIENT		-.02492	-.00131	.00005	-.00013	-.00027	.00017	-.03951	.00000	-.00012

ARC 9° 7' 47" Q4338 B C M F W L V NOM. RN/L

(AEK005) (12 MAR 74)

REFERENCE DATA

REF = 2.4210 50. FT. XMRP = 32.3010 IN.
 LREF = 14.2445 IN. YMRP = .0000 IN.
 BREF = 26.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0500 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000
 AILROM = .000 BDFLAP = -11.700
 SPDBRK = 55.000 PUDDER = .000
 ELEV-L = 15.000 ELEV-R = 15.000

F/M NO. 15/ 5 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMPD	CY	CYN	CBL	CYV	CYNV	XCF/L	Q	CBLV
1.001	-1.465	-0.1490	.00480	.00090	-0.0050	-0.0020	-0.0030	.06960	587.60000	.00040
1.001	-1.315	-0.0740	.00600	.00150	-0.0030	-0.0040	-0.0050	.08120	587.60000	.00050
1.001	1.507	-0.0460	.0050	.00090	-0.0040	.00010	-0.0040	.07400	587.60000	.00050
1.001	3.424	-0.0140	.0080	.00090	-0.0060	.00110	-0.0070	.07170	587.60000	.00050
1.001	5.490	-0.0400	.0060	.00090	-0.0050	.00020	-0.0030	.05310	587.60000	.00040
1.001	7.997	-0.0700	.0030	.00090	-0.0030	.00140	-0.0070	.07400	587.60000	.00050
1.001	9.625	-0.0100	.0040	.00090	-0.0030	.00030	-0.0030	.05990	587.60000	.00040
1.001	12.720	-0.1240	.0030	.00090	-0.0040	.00040	-0.0030	.05060	587.60000	.00040
1.001	15.030	-0.1260	.0060	.0010	-0.0040	-0.0010	-0.0020	.05830	587.60000	.00020
1.001	16.940	-0.1300	.0040	.00090	-0.0040	-0.0010	-0.0030	.06440	587.60000	.00030
1.001	18.590	-0.1400	.0050	.00090	-0.0040	-0.0010	-0.0040	.08030	587.60000	.00020
1.001	22.050	-0.1480	.0060	.00090	-0.0040	-0.0010	-0.0060	.07750	587.60000	-0.00010
1.001	24.110	-0.1430	.0050	.00090	-0.0030	-0.0030	-0.0020	.07030	587.60000	.00020
GRADIENT			.00010	-0.0001	-0.0005	.00020	-0.0000	.00061	.00000	.00002

F/M NO. 9/ 5 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMPD	CY	CYN	CBL	CYV	CYNV	XCF/L	Q	CBLV
2.002	-1.476	-0.1890	.00850	.00060	.00020	.00190	-0.0020	.37880	560.40000	.00160
2.002	-1.202	-0.0290	.00790	.00100	.00000	.00450	-0.0020	1.04800	560.40000	.00140
2.002	1.341	-0.0320	.00770	.00120	-0.0030	.00370	-0.0010	.77760	560.40000	.00130
2.002	3.307	-0.0410	.00750	.00130	-0.0050	.00290	-0.0010	.72840	560.40000	.00120
2.002	5.446	-0.0310	.00670	.00130	-0.0060	.00260	-0.0010	.71230	560.40000	.00100
2.002	7.501	-0.0590	.00740	.00140	-0.0080	.00240	-0.0010	.70170	560.40000	.00090
2.002	9.552	-0.0610	.00740	.00160	-0.0030	.00230	-0.0010	.69370	560.40000	.00080
2.002	12.650	-0.0720	.00730	.00140	-0.0050	.00230	-0.0010	.68400	560.40000	.00070
2.002	15.750	-0.0810	.00700	.00160	-0.0020	.00080	-0.0040	.67830	560.40000	.00030
2.002	18.840	-0.0860	.00660	.00210	-0.0030	-0.0030	-0.0010	.67480	560.40000	-0.00010
2.002	21.940	-0.1000	.00550	.00230	-0.0080	-0.0150	.00060	.67280	560.40000	-0.00040
2.002	25.040	-0.1120	.00530	.00230	-0.0040	-0.0130	.00070	.67190	560.40000	-0.00050
2.002	28.070	-0.1250	.00290	.00140	-0.0040	-0.0150	.00100	.67010	560.40000	-0.00070
GRADIENT			-0.00019	.00010	-0.00015	-0.00050	.00021	.03816	.00000	-0.00012

ARC 97-747 04538 B C M F W1 V MOM. RN/L

(AER004) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 30.FT.
 LREF = 14.2440 IN.
 BREF = 28.1004 IN.
 SCALE = .0390 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AILROM = 5.000 SDCLAP = -11.700
 SPDRA = 55.000 RUDDER = .000
 ELEV-L = 5.000 ELEV-R = -5.000

RUN NO. 6/ 0 R1 L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWD	CY	CYN	CBL	CYV	CYNV	XCF/L	Q	CBLV
1.000	-1.504	.04760	.00430	.00160	.00730	.00200	-.00090	.82210	592.80000	.00060
1.000	-1.198	.03710	.00430	.00120	.00710	.00130	-.00060	1.07000	592.80000	.00050
1.000	1.366	.02410	.00390	.00130	.00720	.00200	-.00090	.43810	592.80000	.00060
1.000	5.415	.00980	.00330	.00070	.00700	.00060	-.00040	.60700	592.80000	.00040
1.000	5.468	-.00470	.00430	.00030	.00690	.00090	-.00050	.64000	592.80000	.00040
1.000	7.589	-.01830	.00490	.00010	.00650	.00070	-.00040	.65280	592.80000	.00030
1.000	9.636	-.02780	.00490	-.00020	.00710	.00020	-.00030	.65680	592.80000	.00030
1.000	12.710	-.03820	.00530	-.00040	.00710	-.00120	.00020	.65790	592.80000	.00010
1.000	15.850	-.04990	.00530	-.00070	.00620	.00030	-.00030	.65880	592.80000	.00020
GRADIENT		-.00772	-.00019	-.00016	-.00005	-.00022	.00008	-.07711	.00000	-.00003

RUN NO. 5/ 0 RN/L = 2.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWD	CY	CYN	CBL	CYV	CYNV	XCF/L	Q	CBLV
2.002	-1.498	.02400	.00680	.00190	.00530	.00350	-.00150	.73920	574.90000	.00110
2.002	-1.203	.01760	.00740	.00150	.00530	.00370	-.00170	.84190	574.90000	.00120
2.002	1.323	.01040	.00650	.00150	.00530	.00300	-.00140	.46720	574.90000	.00110
2.002	5.373	.00120	.00520	.00120	.00500	.00310	-.00140	.62870	574.90000	.00100
2.002	5.441	-.00830	.00600	.00120	.00500	.00220	-.00110	.64900	574.90000	.00080
2.002	7.483	-.01590	.00660	.00100	.00490	.00180	-.00090	.65480	574.90000	.00070
2.002	9.581	-.02070	.00620	.00070	.00500	.00150	-.00080	.65480	574.90000	.00060
2.002	12.650	-.02440	.00700	.00060	.00520	.00220	-.00030	.65210	574.90000	.00060
2.002	15.730	-.02940	.00670	.00050	.00520	-.00020	-.00010	.65110	574.90000	.00010
2.002	18.860	-.03500	.00620	.00070	.00560	.00070	.00020	.65060	574.90000	-.00010
2.002	21.930	-.04120	.00710	.00040	.00630	-.00130	.00050	.65060	574.90000	-.00040
2.002	24.070	-.04910	.00590	.00060	.00680	-.00160	.00020	.65120	574.90000	-.00020
2.002	26.990	-.05560	.00530	-.00180	.00890	-.00040	.00030	.65030	574.90000	-.00020
GRADIENT		-.00467	-.00038	-.00013	-.00010	-.00012	.00004	-.04040	.00000	-.00003

REFERENCE DATA

SREF = 2.4215 IN. YMRP = 32.3010 IN. BETA = .000 ELEVON = -10.000
 LREF = 14.2440 IN. YMRP = .0000 IN. AIRLOW = 5.000 BDFAP = -11.700
 BREF = 20.1004 IN. YMRP = 11.2500 IN. SPDRK = 55.000 RUDDER = .000
 SCALE = .0000 SCALE ELEV-L = -9.000 ELEV-R = -19.000

PARAMETRIC DATA

RUN NO. 8/ 0 BN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
1.000	-1.469	.00160	.00160	.00470	.00690	.00110	-.00560	.85100	591.00000	.00050
1.000	-1.191	.00220	.00220	.00430	.00690	.00130	-.00570	.96120	591.00000	.00050
1.000	1.353	.00250	.00250	.00380	.00680	.00100	-.00560	2.18900	591.00000	.00240
1.000	3.419	.00100	.00100	.00340	.00680	.00120	-.00560	.41270	591.00000	.00050
1.000	5.408	.00100	.00100	.00280	.00660	-.00010	-.00520	.56070	591.00000	.00050
1.000	7.390	.00100	.00100	.00240	.00660	.00010	-.00520	.63400	591.00000	.00050
1.000	9.616	.00100	.00100	.00230	.00650	.00030	-.00530	.52310	591.00000	.00050
1.000	12.720	.00140	.00140	.00190	.00640	-.00010	-.00520	.63520	591.00000	.00050
1.000	15.823	.00130	.00130	.00190	.00570	.00020	-.00530	.64030	591.00000	.00050
1.000	18.940	.00190	.00190	.00190	.00670	-.00010	-.00530	.64170	591.00000	-.00010
1.000	22.050	.00210	.00210	.00180	.00670	.00010	-.00540	.64190	591.00000	-.00050
1.000	25.170	.00260	.00260	.00180	.00640	-.00010	-.00540	.64190	591.00000	-.00050
1.000	29.090	.00100	.00100	.00140	.00670	.00120	-.00550	.63600	591.00000	.00050
GRADIENT		.0011	.0011	.00027	-.00002	.00000	.00001	-.01994	.00000	-.00000

RUN NO. 7/ 0 BN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
2.002	-1.466	.00400	.01080	.00280	.00590	.00330	-.00170	.79000	572.00000	.00130
2.002	-1.206	.00470	.01080	.00200	.00570	.00320	-.00170	.86080	572.00000	.00130
2.002	1.337	.00410	.01050	.00250	.00530	.00410	-.00190	1.78400	572.00000	.00140
2.002	3.390	.00290	.00940	.00190	.00520	.00370	-.00170	.47500	572.00000	.00120
2.002	5.445	.00260	.00890	.00210	.00470	.00210	-.00130	.58220	572.00000	.00100
2.002	7.504	.00200	.00880	.00190	.00460	.00170	-.00100	.61330	572.00000	.00080
2.002	9.63	.00760	.00830	.00180	.00420	.00270	-.00130	.62360	572.00000	.00090
2.002	11.660	.00350	.00960	.00160	.00450	.00190	.00090	.62970	572.00000	.00050
2.002	13.730	-.00120	.00950	.00160	.00450	.00090	-.00040	.63350	572.00000	.00030
2.002	16.830	-.00320	.00890	.00200	.00430	-.00040	.00010	.63580	572.00000	-.00010
2.002	21.940	-.01030	.00820	.00210	.00440	-.00010	.00080	.63740	572.00000	-.00050
2.002	25.050	-.01540	.00730	.00210	.00420	-.00020	.00090	.63880	572.00000	-.00060
2.002	28.930	-.01790	.00700	.00080	.00480	-.00010	.00090	.63870	572.00000	-.00070
GRADIENT		-.00496	-.00029	-.00003	-.00013	.00012	-.00001	-.02538	.00000	-.00002

ARC 87-747 QMS38 B C M F W L V MOM. RM/L

(ACK006) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 88.FT. ZMRP = 32.3010 IN.
 LREF = 14.2440 IN. TMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0350 SCALE

RUN NO. 12/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00
 BETA = .000 ELEVOM = 7.300
 AIRLON = -7.500 BDFAP = -11.700
 SDBER = 35.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = 15.000

PARAMETRIC DATA

BACH	ALPHA	CLMFO	CY	CYN	CBL	C/V	C/VN	ICP/L	Q	CBLV
1.000	-1.481	.01630	.00770	.00830	-.01130	.00210	-.00100	.74630	588.80000	.00080
1.000	-.189	.00680	.00760	.00270	-.01120	.00240	-.00120	.20220	588.60000	.00090
1.000	1.580	-.00450	.00650	.00390	-.01130	.00190	-.00090	.65410	588.60000	.00070
1.000	3.423	-.01940	.00730	.00300	-.01090	.00190	-.00090	.67320	588.60000	.00060
1.000	3.489	-.03420	.00770	.00320	-.01040	.00040	-.00040	.67880	588.60000	.00040
1.000	7.564	-.04830	.00920	.00320	-.01010	.00160	-.00060	.68030	588.60000	.00070
1.000	9.821	-.05840	.00770	.00330	-.01030	.00100	-.00060	.67930	588.60000	.00060
1.000	12.720	-.07130	.00820	.00370	-.01130	.00070	-.00090	.67690	588.60000	.00070
1.000	15.930	-.08480	.00810	.00430	-.01160	.00160	-.00080	.67430	588.60000	.00090
1.000	18.940	-.09340	.00670	.00410	-.01160	-.00140	-.00090	.67210	588.60000	.00090
1.000	22.030	-.10100	.00600	.00620	-.01220	-.00130	.00020	.66850	588.60000	.00090
1.000	25.170	-.10600	.00590	.00690	-.01310	-.00270	.00020	.66590	588.60000	.00090
1.000	29.120	-.09710	.00620	.00370	-.01360	-.00170	.00040	.66320	588.60000	.00080
1.000			-.00028	.00010	.00007	-.00007	.00004	.66040	.00000	.00004

GRADIENT

RUN NO. 11/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

BACH	ALPHA	CLMFO	CY	CYN	CBL	C/V	C/VN	ICP/L	Q	CBLV
2.002	-1.480	.00210	.00930	.00260	-.00780	.00380	-.00180	.64630	565.80000	.00130
2.002	-.202	-.00350	.00790	.00280	-.00770	.00380	-.00180	.45130	565.80000	.00120
2.002	1.338	-.01140	.00760	.00310	-.00800	.00370	-.00090	.71210	565.80000	.00100
2.002	3.391	-.02110	.00670	.00370	-.00790	.00350	-.00160	.89020	565.80000	.00120
2.002	5.447	-.03030	.00670	.00410	-.00820	.00290	-.00090	.68510	565.80000	.00090
2.002	7.493	-.03790	.00590	.00420	-.00840	.00230	-.0010	.68070	565.80000	.00080
2.002	9.556	-.04360	.00570	.00440	-.00820	.00220	-.00090	.67590	565.80000	.00090
2.002	12.890	-.04870	.00670	.00470	-.00860	.00210	-.00090	.66930	565.80000	.00090
2.002	15.730	-.05330	.00570	.00510	-.00930	.00060	-.00090	.66340	565.80000	.00090
2.002	18.830	-.06240	.00550	.00630	-.00980	-.00010	.00000	.66300	565.80000	.00090
2.002	21.940	-.07030	.00480	.00680	-.01070	-.00140	.00000	.66200	565.80000	.00090
2.002	25.040	-.08000	.00400	.00710	-.01140	-.00130	.00000	.66100	565.80000	.00090
2.002	28.930	-.08770	.00340	.00710	-.01240	-.00160	.00000	.65990	565.80000	.00090
2.002			-.00034	.00023	-.00007	-.00006	.00004	.65603	.00000	.00002

GRADIENT

DATE 16 JUL 74

TABULATED SOURCE DATA - 04 38

PAGE 37

ARC 97-747 04338 8 C M F W1 V HIGH RN/L

(AEK007) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 80-FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 26.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0000 SCALE

PARAMETRIC DATA

BETA = .300 ELEVOM = 15.000
 AILROM = .000 BDCLAP = 16.000
 SPDRK = 55.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = 15.000

RUN NO. 14/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWD	CY	CYN	CBL	CVV	CYV	XCP/L	Q	CBLV
1.601	-1.508	-0.4110	.00410	.00060	.00060	.00120	-.00070	1.79000	927.20000	.00050
1.601	-1.197	-0.50500	.00430	.00060	.00020	.00150	-.00090	.88830	927.20000	.00060
1.601	1.398	-0.53350	.00390	.00060	.00010	.00160	-.00080	.78980	927.20000	.00060
1.601	3.428	-0.53330	.00350	.00030	.00030	.00060	-.00050	.73190	927.20000	.00050
1.601	5.595	-0.59850	.00370	.00020	.00020	.00030	-.00040	.73190	927.20000	.00040
1.601	7.704	-1.11510	.00470	.00030	.00030	.00030	-.00040	.72850	927.20000	.00030
1.601	9.810	-1.30700	.00490	-.00010	.00070	.00030	-.00030	.71990	927.20000	.00030
1.601	12.990	-1.48000	.00330	-.00030	.00110	.00000	-.00020	.71540	927.20000	.00020
1.601	15.160	-1.6410	.00360	-.00040	.00150	-.00040	.00000	.70350	927.20000	.00010
1.601	19.340	-1.7520	.00620	-.00060	.00190	-.00090	.00020	.68690	927.20000	-.00010
1.601	22.530	-1.8520	.00600	-.00010	.00190	-.00170	.00050	.69170	927.20000	-.00020
1.601	25.760	-1.93300	.00540	-.00030	.00200	-.00100	.00050	.68700	927.20000	-.00030
1.601	29.730	-1.9040	.00760	-.00180	.00260	-.00020	-.00010	.67990	927.20000	.00000
GRADIENT		-.00789	.00002	-.00006	-.00005	-.00012	.00005	-.18013	.00000	-.00000

RUN NO. 13/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWD	CY	CYN	CBL	CVV	CYV	XCP/L	Q	CBLV
2.002	-1.510	-0.4010	.00720	-.00070	.00110	.00300	-.00160	-1.19000	865.30000	.00110
2.002	-1.218	-0.4620	.00750	-.00060	.00090	.00310	-.00160	1.54400	865.30000	.00120
2.002	1.332	-0.5440	.00720	-.00060	.00080	.00350	-.00170	.82940	865.30000	.00120
2.002	3.407	-0.6580	.00770	-.00060	.00080	.00250	-.00130	.76370	865.30000	.00100
2.002	5.523	-0.7740	.00680	-.00060	.00080	.00240	-.00130	.73940	865.30000	.00090
2.002	7.601	-0.94750	.00590	-.00060	.00080	.00150	-.00100	.72470	865.30000	.00080
2.002	9.691	-1.0460	.00730	-.00070	.00130	.00190	-.00100	.71340	865.30000	.00080
2.002	12.840	-1.10430	.00770	-.00090	.00160	.00180	-.00100	.70110	865.30000	.00070
2.002	16.010	-1.1560	.00730	-.00100	.00190	.00050	-.00040	.69380	865.30000	.00040
2.002	19.170	-1.1860	.00690	-.00080	.00220	.00000	-.00020	.68920	865.30000	.00020
2.002	22.330	-1.1450	.00680	-.00070	.00230	.00000	-.00010	.68600	865.30000	.00020
2.002	25.500	-1.19620	.00690	-.00100	.00280	-.00050	.00020	.68440	865.30000	.00000
2.002	29.500	-1.17650	.00480	-.00180	.00300	.00010	.00010	.68220	865.30000	-.00010
GRADIENT		-.00525	.00008	.00002	-.00006	-.00008	.00005	.31146	.00000	-.00002

ARC 97-747 04338 B C M F W1 V NOM. RN/L

(AEK068) (12 MAR 74)

REFERENCE DATA

REF = 2.4210 98.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0960 IN.
 BREF = 26.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000
 AILROM = .000 BDFLAP = 16.300
 SPDGRK = 55.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = 15.000

RUN NO. 18/ 0 RN/L = 2.76 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CVV	CYNV	XCP/L	Q	CBLV
1.800	-1.484	-.04270	.00580	.00060	.00040	.00030	-.00040	1.71000	601.10000	.00050
1.800	-1.198	-.03370	.00620	.00040	.00040	.00140	-.00080	.88710	601.10000	.00060
1.800	1.360	-.06300	.00330	.00060	-.00010	.00000	-.00030	.79360	601.10000	.00040
1.800	3.408	-.08150	.00730	.00030	-.00030	.00020	-.00040	.75450	601.10000	.00040
1.800	5.472	-.09920	.00720	.00020	.00000	-.00030	-.00020	.73760	601.10000	.00030
1.800	7.532	-.11610	.00770	.00020	.00020	.00130	-.00060	.72820	601.10000	.00050
1.800	9.628	-.12950	.00700	.00000	.00020	.00160	-.00080	.72060	601.10000	.00050
1.800	12.720	-.14610	.00800	-.00040	.00070	.00140	-.00070	.71160	601.10000	.00040
1.800	15.860	-.16510	.00750	-.00030	.00140	.00120	-.00050	.70310	601.10000	.00040
1.800	18.970	-.17800	.00790	-.00030	.00150	.00000	-.00020	.69890	601.10000	.00020
1.800	22.080	-.18920	.00760	.00000	.00100	-.00050	.00010	.69400	601.10000	.00000
1.800	25.230	-.19840	.00740	.00050	.00140	-.00190	.00060	.68930	601.10000	-.00030
1.800	29.140	-.19440	.00360	-.00060	.00150	-.00060	.00020	.68170	601.10000	-.00020
	GRADIENT	-.00786	.00025	-.00004	-.00016	-.00011	.00003	-.16967	.00000	-.00003

RUN NO. 17/ 0 RN/L = 2.73 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CVV	CYNV	XCP/L	Q	CBLV
2.002	-1.490	-.03970	.00900	-.00110	.00110	.00050	-.00020	-1.23500	585.40000	.00150
2.002	-.205	-.04650	.00930	-.00110	.00110	.00440	-.00210	1.03900	585.40000	.00140
2.002	1.330	-.03490	.01010	-.00110	.00090	.00420	-.00200	.82790	585.40000	.00140
2.002	3.389	-.06660	.00970	-.00120	.00070	.00470	-.00210	.76460	585.40000	.00140
2.002	5.440	-.07870	.01040	-.00130	.00120	.00320	-.00160	.74100	585.40000	.00120
2.002	7.489	-.08790	.00970	-.00130	.00110	.00390	-.00180	.72630	585.40000	.00120
2.002	9.538	-.09610	.01020	-.00120	.00160	.00410	-.00180	.71530	585.40000	.00120
2.002	12.680	-.10560	.00940	-.00130	.00150	.00370	-.00170	.70260	585.40000	.00110
2.002	15.770	-.11800	.01010	-.00120	.00190	.00340	-.00150	.69540	585.40000	.00090
2.002	18.860	-.13120	.00890	-.00070	.00180	.00160	-.00070	.69070	585.40000	.00050
2.002	21.950	-.14480	.00780	-.00010	.00170	-.00030	.00010	.68770	585.40000	.00000
2.002	25.040	-.16120	.00670	.00020	.00140	-.00150	.00060	.68600	585.40000	-.00030
2.002	28.130	-.18140	.00100	.00130	.00190	-.000270	.00120	.68410	585.40000	-.00070
	GRADIENT	-.00552	.00017	-.00002	-.00009	-.00008	.00002	.32223	.00000	-.00002

DATE 16 JUL 74

ABSOLUTE SOURCE DATA - 0A538

ARC 97-747 0A538 B C M F W I Y LOW RN/L

PAGE 59

(AEK009) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 SQ.FT.
 LREF = 14.2440 IN.
 BREF = 20.1004 IN.
 SCALE = .0300 SCALE

XMRP = 32.3010 IN.
 YMRP = .0000 IN.
 ZMRP = 11.2500 IN.

BETA = .000 ELEVOM = 15.000
 AILROM = .000 BDFLAP = 16.300
 SPDBRK = 55.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = 15.000

PARAMETRIC DATA

RUN NO. 19/ 0 RN/L = 1.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFD	CY	CYN	CBL	CYV	CYNV	XCP/L	q	CBLV
1.000	-1.430	-0.0469	.00149	.00130	-.00030	.00210	-.00090	1.55900	288.60000	.00040
1.000	-1.195	-0.0390	.00110	.00100	.00010	.00180	-.00080	.89740	288.60000	.00050
1.000	1.324	-0.1560	.00170	.00110	-.00020	.00200	-.00080	.79840	288.60000	.00050
1.000	3.356	-0.0370	.00250	.00090	-.00060	.00350	-.00120	.75880	288.60000	.00070
1.000	5.395	-0.0930	.00360	.00080	-.00030	.00230	-.00090	.74070	288.60000	.00060
1.000	7.451	-0.1150	.00370	.00060	-.00030	.00230	-.00080	.73020	288.60000	.00050
1.000	9.444	-0.1500	.00470	.00040	-.00060	.00230	-.00060	.72350	288.60000	.00030
1.000	12.480	-0.1520	.00360	.00050	.00010	.00360	-.00120	.71470	288.60000	.00050
1.000	15.540	-0.1680	.00360	.00050	.00020	.00150	-.00050	.70780	288.60000	.00040
1.000	18.600	-0.1820	.00480	.00030	.00020	.00210	-.00070	.70140	288.60000	.00010
1.000	21.640	-0.1940	.00540	.00050	.00010	.00070	-.00030	.69650	288.60000	.00020
1.000	24.690	-0.2030	.00480	.00050	.00030	.00130	-.00040	.69170	288.60000	.00010
1.000	28.370	-0.2030	.00500	.00030	.00040	.00220	-.00040	.68440	288.60000	.00010
GRADIENT			.00026	-.00007	-.00009	.00030	-.00006	-.14186	.00000	.00006

RUN NO. 20/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFD	CY	CYN	CBL	CYV	CYNV	XCP/L	q	CBLV
2.002	-1.456	-0.0390	.00150	.00010	.00000	.00590	-.00160	-2.60900	199.20000	.00080
2.002	-1.201	-0.0450	.00060	.00020	.00020	.00510	-.00170	.97050	199.20000	.00070
2.002	1.315	-0.0540	.00100	.00010	-.00030	.00530	-.00160	.81880	199.20000	.00070
2.002	3.338	-0.0660	.00030	.00010	-.00010	.00540	-.00170	.76150	199.20000	.00070
2.002	5.347	-0.0770	.00090	.00010	-.00040	.00290	-.00110	.74150	199.20000	.00060
2.002	7.371	-0.0860	.00040	.00010	-.00040	.00540	-.00170	.72520	199.20000	.00070
2.002	9.392	-0.0930	.00130	.00030	-.00010	.00180	-.00050	.71410	199.20000	.00020
2.002	12.410	-0.1050	.00070	.00030	-.00030	.00380	-.00110	.70360	199.20000	.00030
2.002	15.450	-0.1180	.00170	.00070	.00030	.00600	-.00180	.69650	199.20000	.00070
2.002	18.480	-0.1330	.00340	.00110	.00030	.00560	-.00170	.69270	199.20000	.00060
2.002	21.500	-0.1480	.00210	.00120	.00020	.00510	-.00160	.69030	199.20000	.00060
2.002	24.540	-0.1660	.00280	.00140	.00010	.00530	-.00160	.68890	199.20000	.00060
2.002	28.370	-0.1880	.00220	.00250	.00040	.00670	-.00220	.68740	199.20000	.00100
GRADIENT			.00023	-.00003	-.00003	-.00007	-.00001	.56825	.00000	-.00002

DATE 18 JUL 74

TABULATED SOURCE DATA - Q4338

PAGE 80

ARC 97-747 Q4338 B C M F VI V MOM. RN/L

(AEK010) (12 MAR 74)

REFERENCE DATA

REF = 2.4210 98.FT.
 LREF = 14.2440 IN.
 PREF = 28.1004 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AIRROM = .000 8DFLAP = 16.300
 SPDRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 22/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFD	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
1.600	-1.539	.02320	.00590	.00060	-.00030	.00180	-.00100	.75910	590.10000	.00060
1.600	-.199	.01360	.00490	.00070	-.00020	.00180	-.00090	1.10000	590.10000	.00060
1.600	1.343	.00120	.00450	.00070	-.00040	.00120	-.00070	.62590	590.10000	.00050
1.600	3.407	-.01540	.00370	.00070	-.00020	.00220	-.00100	.66020	590.10000	.00070
1.600	5.519	-.03320	.00600	.00070	-.00030	.00060	-.00050	.67920	590.10000	.00040
1.600	7.542	-.05000	.00600	.00050	.00000	.00050	-.00040	.68380	590.10000	.00040
1.600	9.609	-.05940	.00650	.00040	-.00030	-.00030	-.00020	.68140	590.10000	.00030
1.600	12.710	-.07480	.00650	.00020	-.00010	.00050	-.00040	.67930	590.10000	.00030
1.600	15.790	-.08840	.00690	.00040	.00060	.00050	-.00040	.67700	590.10000	.00030
1.600	18.930	-.09800	.00560	.00070	.00100	-.00090	.00010	.67370	590.10000	.00050
1.600	22.100	-.10600	.00470	.00080	.00100	-.00170	.00040	.67070	590.10000	-.00010
1.600	25.110	-.11070	.00520	.00110	.00080	-.00290	.00090	.66770	590.10000	-.00050
1.600	29.040	-.09960	.00490	.00050	.00150	-.00160	.00040	.66550	590.10000	-.00040
GRADIENT		-.00818	-.00003	.00002	.00001	.00005	.00001	-.04811	.00000	-.00002

RUN NO. 21/ 0 RN/L = 2.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFD	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
2.002	-1.554	.00710	.00460	.00120	.00020	.00350	-.00150	.67030	563.00000	.00100
2.002	-.200	.00010	.00430	.00110	.00020	.00350	-.00150	.63540	563.00000	.00100
2.002	1.333	-.00820	.00350	.00110	.00020	.00270	-.00120	.70250	563.00000	.00090
2.002	3.360	-.01890	.00380	.00120	-.00010	.00120	-.00090	.68940	563.00000	.00060
2.002	5.491	-.03030	.00360	.00120	-.00020	.00200	-.00100	.68680	563.00000	.00070
2.002	7.473	-.03920	.00430	.00130	-.00020	.00210	-.00100	.68380	563.00000	.00070
2.002	9.559	-.04380	.00450	.00120	-.00020	.00180	-.00090	.67920	563.00000	.00060
2.002	12.610	-.05350	.00520	.00120	-.00010	.00100	-.00050	.67310	563.00000	.00040
2.002	15.730	-.06070	.00530	.00130	-.00010	.00020	-.00020	.66910	563.00000	.00020
2.002	18.620	-.06830	.00500	.00140	-.00020	.00040	-.00010	.66650	563.00000	.00030
2.002	21.920	-.07750	.00500	.00150	.00000	-.00070	.00030	.66530	563.00000	-.00030
2.002	25.020	-.08830	.00390	.00110	.00000	-.00010	.00030	.66470	563.00000	-.00030
2.002	28.900	-.09750	.00410	.00060	.00030	-.00040	.00040	.66310	563.00000	-.00040
GRADIENT		-.00328	-.00018	.00000	-.00006	-.00049	.00015	.00760	-.00000	-.00008

DATE 16 JUL 74

TABLE CL SOURCE DATA - 04538

PAGE 61

AR: 0--747 04538 B C M F W I V MO: R I/L

(AEK011) (12 MAR 74)

REFERENCE DATA

PARAMETRIC DATA

BREF = 2.4210 90-FT. XMRP = 32.3010 IN. BETA = .000 ELEVOM = .000
 LREF = 14.2440 IN. YMRP = .0000 IN. AILROM = .000 BOFLAP = -11.700
 BREF = 20.1004 IN. ZMRP = 11.2500 IN. SPDGRK = 55.000 RUDDER = .000
 SCALE = .0300 SCALE ELEV-L = .000 ELEV-R = .000

RUN NO. 27/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFLD	CY	CYN	CBL	CVY	CYNV	XCP/L	Q	CBLV
1.600	-1.489	.04930	.00760	.00060	-.00020	.00130	-.00080	.02240	590.10000	.00070
1.600	-1.183	.03840	.00720	.00070	-.00040	.00130	-.00080	1.05600	590.10000	.00070
1.600	1.364	.02680	.00680	.00080	-.00040	.00070	-.00060	.38750	590.10000	.00060
1.600	3.430	.01150	.00580	.00090	-.00030	.00140	-.00080	.60210	590.10000	.00060
1.600	5.507	-.00410	.00710	.00080	-.00010	.00130	-.00080	.63920	590.10000	.00060
1.600	7.559	-.01860	.00680	.00080	.00010	.00130	-.00080	.65320	590.10000	.00060
1.600	9.642	-.02560	.00660	.00050	.00010	.00170	-.00090	.65510	590.10000	.00060
1.600	12.723	-.03750	.00760	.00030	.00000	.00110	-.00060	.65760	590.10000	.00040
1.600	15.850	-.04910	.00890	.00030	.00000	.00070	-.00060	.65850	590.10000	.00040
1.600	17.910	-.05480	.00590	.00090	.00000	-.00050	-.00020	.65810	590.10000	.00020
1.600	18.940	-.05720	.00630	.00100	.00090	-.00260	.00050	.65760	590.10000	-.00020
1.600	22.080	-.06040	.00570	.00120	.00090	-.00190	.00040	.65530	590.10000	-.00020
1.600	25.180	-.06110	.00570	.00200	.00100	-.00370	.00120	.65270	590.10000	-.00070
1.600	29.120	-.04880	.00350	.00070	.00140	-.00080	.00030	.64680	590.10000	-.00030
GRADIENT		-.00758	-.00036	.00006	-.00001	-.00001	.00001	-.07906	.00000	-.00002

RUN NO. 23/ 0 RN/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFLD	CY	CYN	CBL	CVY	CYNV	XCP/L	Q	CBLV
2.002	-1.483	.02530	.00770	.00100	.00000	.00370	-.00170	.74030	562.70000	.00110
2.002	-1.185	.01920	.00700	.00080	.00010	.00400	-.00180	.81970	562.70000	.00120
2.002	1.376	.01110	.00640	.00090	.00000	.00360	-.00160	.47650	562.70000	.00110
2.002	3.373	.00220	.00360	.00110	-.00020	.00290	-.00140	.62500	562.70000	.00100
2.002	5.444	-.00750	.00630	.00120	-.00010	.00250	-.00120	.64780	562.70000	.00090
2.002	7.480	-.01470	.00620	.00140	-.00020	.00150	-.00090	.65340	562.70000	.00070
2.002	9.550	-.01920	.00630	.00140	-.00010	.00130	-.00080	.65360	562.70000	.00060
2.002	12.620	-.02410	.00650	.00160	.00000	.00160	-.00080	.65200	562.70000	.00050
2.002	15.700	-.02880	.00850	.00170	-.00030	.00130	-.00050	.65080	562.70000	.00030
2.002	18.870	-.03400	.00600	.00210	.00000	-.00030	.00010	.65020	562.70000	-.00010
2.002	21.940	-.03950	.00450	.00200	-.00030	-.00120	.00030	.64990	562.70000	-.00040
2.002	25.040	-.04670	.00440	.00180	.00000	-.00070	.00050	.65030	562.70000	-.00050
2.002	28.930	-.05030	.00330	.00120	.00020	.00010	.00030	.64890	562.70000	-.00040
GRADIENT		-.00479	-.00043	.00003	-.00005	-.00019	.00007	-.04080	-.00000	-.00003

ARC 97-747 04338 B C M F W I V MOM. RN/L

(AEK012) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 80.FT.
 LREF = 14.2440 IN.
 BREF = 24.1034 IN.
 SCALE = .0300 SCALE

YMRP = 32.3010 IN.
 YMRP = .0900 IN.
 ZMRP = 11.2500 IN.

ALPHA = .000 ELEVON = .000
 AILRON = .000 ROFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 28/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
1.600	-5.185	.03430	.09970	-.00490	.00410	.04360	-.02010	1.04100	595.70000	.01360
1.600	-3.082	.03690	.06090	-.00200	.00230	.02700	-.01230	1.04900	595.70000	.00840
1.600	-1.934	.03860	.02520	.00010	.00060	.01020	-.00470	1.05800	595.70000	.00320
1.600	-.913	.03820	.00780	.00100	-.00010	.00170	-.00100	1.06900	595.70000	.00280
1.600	1.015	.03880	-.01010	.00160	-.00110	-.00670	.00290	1.07300	595.70000	-.00180
1.600	3.071	.03860	-.04600	.00280	-.00280	-.02240	.00990	1.10300	595.70000	-.00670
1.600	5.132	.03750	-.08380	.00400	-.00430	-.03750	.01710	1.13800	595.70000	-.01150
1.600	5.772	.03690	-.09560	.00390	-.00320	-.04380	.01990	1.14900	595.70000	-.01320
	GRADIENT	.00026	-.01736	.00078	-.00083	-.00805	.00362	.00863	-.00000	-.00245

RUN NO. 24/ 0 RN/L = 2.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
2.002	-5.555	.01350	.10140	-.00110	.00390	.04410	-.02020	.78430	563.70000	.01350
2.002	-3.471	.01680	.06090	.00050	.00240	.02740	-.01240	.80840	563.70000	.00840
2.002	-1.458	.01910	.02440	.00110	.00080	.01100	-.00510	.82650	563.70000	.00340
2.002	-.389	.01910	.00500	.00130	.00010	.00300	-.00140	.82700	563.70000	.00090
2.002	.640	.01960	-.01360	.00170	-.00070	-.00590	.00260	.83720	563.70000	-.00160
2.002	2.719	.01850	-.05200	.00280	-.00263	-.02240	.01000	.83470	563.70000	-.00670
2.002	4.752	.01630	-.09050	.00470	-.00460	-.03860	.01760	.83980	563.70000	-.01160
2.002	5.954	.01440	-.11370	.00570	-.00570	-.04800	.02220	.82840	563.70000	-.01440
	GRADIENT	-.00010	-.01839	.00050	-.00085	-.00803	.00365	.00341	.00000	-.00243

DATE 16 JUL 74

TABLED SOURCE DATA - 04538

PAGE 63

ARC 97-747 04538 B C M F W V NOM. RN/L

(AEK013) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 98.FT. YMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 20.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0000 SCALE

ALPHA = 10.000 ELEVOM = .000
 AILROM = .000 BDFLAP = -11.700
 SPDGRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 29/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
1.600	-5.046	-0.03150	.06590	.00100	.00710	.03090	-.01500	.65840	595.10000	.01530
1.600	-3.016	-.02770	.05390	.00100	.00310	.01770	-.00880	.65570	595.10000	.00610
1.600	-.996	-.02810	.02210	.00110	.00050	.00690	-.00350	.65600	595.10000	.00210
1.600	.024	-.02860	.00750	.00080	.00000	.00070	-.00050	.65650	595.10000	.00040
1.600	1.038	-.02810	-.00750	.00070	-.00060	-.00660	.00270	.65600	595.10000	-.00110
1.600	3.062	-.02670	-.03850	.00010	-.00290	-.01680	.00790	.65480	595.10000	-.00320
1.600	5.104	-.02860	-.07030	-.00130	-.00670	-.02980	.01400	.65600	595.10000	-.00920
1.600	6.927	-.02780	-.10140	-.00220	-.00990	-.04000	.01970	.65550	595.10000	-.01280
	GRADIENT	.00015	-.01514	-.00015	-.00094	-.00577	.00278	-.00013	-.00000	-.00187

RUN NO. 25/ 0 RN/L = 2.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
2.002	-5.428	-.02090	.08770	.00460	.00500	-.00430	-.00330	.65390	562.70000	.00640
2.002	-3.393	-.01970	.05440	.00330	.00270	.00040	-.00310	.65290	562.70000	.00440
2.002	-1.343	-.02020	.02100	.00250	.00060	.00400	-.00240	.65340	562.70000	.00200
2.002	-.343	-.02030	.00350	.00160	-.00020	.00120	-.00060	.65360	562.70000	.00050
2.002	.659	-.01990	-.01020	.00080	-.00120	-.00460	.00210	.65320	562.70000	-.00130
2.002	2.693	-.01940	-.04360	.00020	-.00340	-.01770	.00840	.55270	562.70000	-.00540
2.002	4.728	-.02010	-.07650	-.00010	-.00620	-.02910	.01390	.65310	562.70000	-.00920
2.002	6.769	-.02200	-.11260	.00000	-.00970	-.04240	.02000	.65500	562.70000	-.01310
2.002	8.801	-.02350	-.14490	-.00210	-.01220	-.04890	.02370	.65820	562.70000	-.01570
	GRADIENT	.00001	-.01608	-.00044	-.00108	-.00411	.00225	-.00003	.00000	-.00172

ARC 97-747 Q4538 B C M F W1 V NOM. RN/L

(AEK014) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 SQ.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2550 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 ELEVOM = .000
 AILRCM = .000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 30/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWD	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
1.600	-5.047	-.05160	.07270	.01370	.00540	-.00770	.00000	.65640	595.40000	.00150
1.600	-2.987	-.05860	.04580	.00880	.00350	-.00600	.00010	.65640	595.40000	.00090
1.600	-.945	-.05880	.01890	.00340	.00180	-.00250	-.00020	.65650	595.40000	.00040
1.600	.080	-.05850	.00520	.00120	.00060	-.00150	.00030	.65650	595.40000	-.00020
1.600	1.086	-.05930	-.00820	-.00120	-.00060	-.00120	.00100	.65660	595.40000	-.00070
1.600	3.127	-.05840	-.03440	-.00660	-.00260	.00140	.00140	.65620	595.40000	-.00140
1.600	5.168	-.05690	-.06040	-.01370	-.00490	.00490	.00090	.65560	595.40000	-.00160
1.600	7.218	-.05650	-.08010	-.01940	-.00770	.00590	.00120	.65560	595.40000	-.00220
1.600	9.271	-.05870	-.12880	-.02240	-.01110	-.00060	.00420	.65650	595.40000	-.00400
	GRADIENT	.00001	-.01314	-.00249	-.00102	.00115	.00025	-.00002	-.00000	-.00039

RUN NO. 26/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWD	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
2.002	-5.423	-.03970	.07150	.01830	.00590	-.01260	.00280	.65140	580.90000	-.00020
2.002	-3.363	-.03740	.04190	.01190	.00310	-.01110	.00290	.65030	580.90000	-.00060
2.002	-1.328	-.03690	.01760	.00330	.00080	-.00470	.00130	.65010	580.90000	-.00040
2.002	-.324	-.03650	.00560	.00200	-.00020	-.00140	.00050	.65000	580.90000	-.00030
2.002	.700	-.03630	-.00610	-.00130	-.00010	.00040	.00010	.64980	580.90000	-.00030
2.002	2.741	-.03800	-.03030	-.00740	-.00360	.00560	-.00090	.65060	580.90000	-.00020
2.002	3.772	-.03890	-.04180	-.01060	-.00490	.00880	-.00170	.65100	580.90000	-.00010
2.002	6.634	-.04460	-.08990	-.01530	-.01100	.00300	.00150	.65360	580.90000	-.00250
2.002	8.879	-.04690	-.12840	-.01670	-.01580	.00620	.00590	.65470	580.90000	-.00510
	GRADIENT	-.00022	-.01174	-.00315	-.00111	.00271	-.00061	.00010	-.00000	.00006

ARC 97-747 Q4538 B C M F W1 V LOW RM/L

(AEK015) (12 MAR 74)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2.4210 SQ-FT. YMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

BETA = .000 ELEVOM = .000
 AIRLOM = .000 BDFLAP = .000
 SPOBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 16/ 0 RM/L = 1.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWD	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
1.601	-1.515	-.04460	-.00160	.00140	-.00090	-.00080	.00010	.80600	254.90000	-.00030
1.601	-1.188	-.03330	-.00230	.00150	-.00060	.00190	-.00070	1.04300	274.90000	.00020
1.601	1.331	-.02130	-.00250	.00120	-.00080	.00070	-.00030	.44500	254.90000	.00010
1.601	3.549	-.00580	-.00400	.00140	-.00110	.00190	-.00060	.61720	254.90000	.00030
1.601	5.377	-.00890	-.00280	.00130	-.00100	.00160	-.00050	.64700	254.90000	.00020
1.601	7.598	-.02020	-.00250	.00120	-.00070	.00120	-.00040	.65590	254.90000	.00010
1.601	9.420	-.03330	-.00150	.00110	-.00070	.00160	-.00050	.66210	254.90000	.00040
1.601	12.470	-.04790	-.00040	.00080	-.00060	.00160	-.00050	.66470	254.90000	.00010
1.601	15.510	-.06080	-.00040	.00080	-.00030	.00260	-.00090	.66500	254.90000	.00020
1.601	18.560	-.06890	-.00080	.00080	.00000	.00170	-.00060	.66320	254.90000	.00010
1.601	21.610	-.07670	-.00160	.00070	.00000	.00170	-.00060	.66160	254.90000	.00010
1.601	24.650	-.08180	-.00120	.00040	.00020	.00170	-.00050	.65970	254.90000	.00050
1.601	26.460	-.07010	-.00170	.00060	.00020	.00180	-.00020	.65310	254.90000	-.00020
GRADIENT		-.00795	-.00047	-.00002	-.00013	.00041	-.00010	-.07091	.00000	.00010

RUN NO. 35/ 0 RM/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWD	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
2.002	-1.521	-.02210	-.00240	-.00010	-.00010	.00170	-.00060	.72380	201.50000	.00040
2.002	-1.198	-.01350	-.00100	-.00060	.00030	.00610	-.00020	.78120	201.50000	.00110
2.002	1.315	-.00870	-.00210	-.00030	.00010	.00120	-.00060	.48010	201.50000	.00050
2.002	3.334	-.00120	-.00410	-.00030	.00000	.00650	-.00230	.63700	201.50000	.00140
2.002	5.351	-.01000	-.00180	-.00040	.00000	.00190	-.00080	.65320	201.50000	.00050
2.002	7.374	-.01770	-.00360	-.00030	.00010	.00060	-.00030	.65820	201.50000	.00030
2.002	9.406	-.02340	-.00210	-.00010	.00010	-.00190	.00050	.65850	201.50000	-.00040
2.002	12.420	-.02830	-.00360	-.00040	.00000	.00230	-.00070	.65570	201.50000	.00040
2.002	15.440	-.03560	-.00130	-.00040	.00040	.00240	-.00090	.65540	201.50000	.00040
2.002	18.480	-.04390	-.00190	-.00040	.00030	.00310	-.00110	.65560	201.50000	.00050
2.002	21.510	-.05330	-.00100	-.00070	.00040	.00300	-.00100	.65610	201.50000	.00030
2.002	24.540	-.06260	-.00060	-.00150	.00070	.00270	-.00090	.65650	201.50000	.00030
2.002	26.530	-.07120	-.00130	-.00160	.00040	.00170	-.00070	.65590	201.50000	.00020
GRADIENT		-.00477	-.00043	-.00001	.00000	.00062	-.00023	-.03227	.00000	.00015

ARC 97-747 04538 B C M F VI Y MOM. 2M/L

(AEK016) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 80.FT. YMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 PRCZ = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0500 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 33/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWD	CY	CYN	CBL	CVV	CYV	XCF/L	Q	CBLV
1.000	-1.486	.04250	.00210	.00100	-.00040	.00070	-.00050	.80570	602.30000	.00030
1.000	-.216	.03290	.00160	.00100	-.00040	-.00250	.00060	1.00300	602.30000	-.00010
1.000	1.387	.01990	.00160	.00100	-.00070	.00000	-.00020	.47040	602.30000	.00030
1.000	5.441	.00430	.00180	.00090	-.00070	.00000	-.00020	.62150	602.30000	.00030
1.000	5.505	-.01140	.00200	.00070	-.00070	.00120	-.00050	.65020	602.30000	.00040
1.000	7.543	-.02660	.00290	.00070	-.00070	-.00110	.00010	.66180	602.30000	.00040
1.000	9.645	-.03510	.00310	.00070	-.00050	-.00050	.00000	.65000	602.30000	.00010
1.000	12.720	-.04790	.00260	.00040	-.00010	-.00090	.00010	.66380	602.30000	.00020
1.000	15.820	-.05930	.00330	.00030	.00020	.00100	-.00050	.66350	602.30000	.00030
1.000	18.980	-.06850	.00330	.00040	.00060	.00020	-.00020	.66210	602.30000	.00010
1.000	22.060	-.07320	.00260	.00060	.00100	-.00110	.00020	.65980	602.30000	-.00010
1.000	25.190	-.07840	.00180	.00050	.00070	-.00010	.00070	.65800	602.30000	-.00040
1.000	29.120	-.06540	.00220	-.00050	.00150	.00030	-.00020	.65130	602.30000	.00000
GRADIENT		-.00779	-.00004	-.00002	-.00007	.00007	-.00001	-.06568	.00000	.00003

RUN NO. 34/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWD	CY	CYN	CBL	CVV	CYV	XCF/L	Q	CBLV
2.002	-1.549	.02220	.00820	-.00100	.00050	.00480	-.00220	.72550	589.40000	.00160
2.002	-.206	.01540	.00790	-.00120	.00050	.00430	-.00210	.79640	589.40000	.00150
2.002	1.350	.00750	.00860	-.00110	.00070	.00360	-.00190	.52320	589.40000	.00130
2.002	3.595	-.00330	.00770	-.00090	.00080	.00320	-.00170	.64410	589.40000	.00130
2.002	5.472	-.01320	.00720	-.00080	.00070	.00370	-.00180	.63850	589.40000	.00130
2.002	7.503	-.02100	.00780	-.00080	.00080	.00310	-.00170	.66190	589.40000	.00120
2.002	9.567	-.02670	.00780	-.00060	.00110	.00300	-.00160	.66120	589.40000	.00110
2.002	12.660	-.03250	.00780	-.00050	.00100	.00190	-.00110	.65830	589.40000	.00080
2.002	15.760	-.03880	.00780	-.00010	.00090	.00170	-.00090	.65560	589.40000	.00070
2.002	18.870	-.04540	.00620	.00030	.00090	.00030	-.00030	.65560	589.40000	.00030
2.002	21.970	-.05260	.00460	.00100	.00070	-.00140	.00040	.65520	589.40000	-.00010
2.002	25.080	-.06070	.00380	.00120	.00060	-.00240	.00100	.65510	589.40000	-.00050
2.002	28.980	-.06630	.00120	.00180	.00080	-.00440	.00180	.65360	589.40000	-.00100
GRADIENT		-.00516	-.00009	.00003	.00007	-.00003	.00010	-.02571	.00000	-.00006

ARC 97-747 0433B B C M F W1 V HIGH RN/L

(AEC017) (12 MAR 74)

REFERENCE DATA

XREF = 2.4210 98-FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDBRK = 51.000 RUDDER = .000
 CLEV-L = .000 ELEV-R = .000

RUN NO. 32/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWD	CY	CYN	CBL	CYV	CYNV	KCP/L	Q	CBLV
1.500	-1.508	-0.4150	.00490	.00070	-.00040	.00180	-.00090	.80330	921.00000	.00060
1.600	-1.172	-.03080	.00510	.00080	-.00020	.00000	-.00020	1.07000	921.00000	.00030
1.600	1.393	.01920	.00350	.00090	-.00060	.00000	-.00020	.48350	921.00000	.00030
1.600	3.483	.00400	.00430	.00070	-.00060	.00170	-.00080	.62260	921.00000	.00050
1.600	5.378	-.01180	.00470	.00070	-.00080	.00090	-.00050	.65040	921.00000	.00040
1.600	7.738	-.02700	.00440	.00060	-.00030	.00140	-.00070	.66120	921.00000	.00050
1.600	9.815	-.03840	.00440	.00050	.00030	.00040	-.00030	.66480	921.00000	.00030
1.600	13.020	-.05360	.00360	.00060	.00010	.00010	-.00030	.66620	921.00000	.00020
1.600	16.170	-.06280	.00400	.00040	.00060	-.00010	-.00010	.66430	921.00000	.00020
1.600	19.320	-.06700	.00380	.00030	.00120	.00010	-.00020	.66110	921.00000	.00010
1.600	22.530	-.07100	.00320	.00050	.00130	-.00080	.00020	.65830	921.00000	-.00010
1.600	25.710	-.07320	.00190	.00100	.00160	-.00210	.00070	.65600	921.00000	-.00040
1.600	29.700	-.06130	.00350	-.00050	.00190	-.00050	.00010	.64990	921.00000	-.00010
GRADIENT		-.00749	-.00019	.00000	-.00006	.00003	.00000	-.06757	.00000	-.00001

RUN NO. 31/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWD	CY	CYN	CBL	CYV	CYNV	KCP/L	Q	CBLV
2.002	-1.518	-.02110	.00960	-.00070	.00040	.00390	-.00190	.72470	868.90000	.00140
2.002	-.232	.01500	.00940	-.00090	.00070	.00360	-.00190	.79840	858.90000	.00130
2.002	1.371	.02660	.00860	-.00080	.00060	.00400	-.00200	.55190	868.90000	.00130
2.002	3.425	-.00340	.00890	-.00080	.00070	.00400	-.00190	.64430	868.90000	.00130
2.002	5.543	-.01270	.00850	-.00080	.00070	.00290	-.00160	.65730	868.90000	.00110
2.002	7.611	-.02080	.00900	-.00070	.00090	.00330	-.00170	.66110	868.90000	.00110
2.002	9.699	-.02550	.00910	-.00070	.00100	.00300	-.00150	.65960	868.90000	.00100
2.002	12.830	-.03130	.00840	-.00070	.00110	.00200	-.00120	.65700	868.90000	.00080
2.002	15.990	-.03810	.00780	-.00040	.00130	.00150	-.00090	.65590	868.90000	.00060
2.002	19.140	-.04430	.00670	.00000	.00130	.00030	-.00040	.65490	868.90000	.00030
2.002	22.320	-.05170	.00570	.00010	.00140	-.00030	.00020	.65450	868.90000	.00000
2.002	25.460	-.06010	.00440	.00000	.00150	-.00120	.00040	.65460	868.90000	-.00020
2.002	29.470	-.06380	.00080	.00090	.00170	-.00370	.00010	.65270	868.90000	-.00080
GRADIENT		-.00498	-.00017	-.00001	.00005	.00005	-.00000	-.02877	.00000	-.00002

VIVO 3M38138

GREY = 2.4210 89.FT. INRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 GREY = 20.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

BETA	=	.000	ELEVON	=	-20.000
ALLORN	=	.000	BDFLAP	=	-11.700
SPOBPK	=	55.000	RUDDER	=	.000
ELEV-L	=	-20.000	ELEV-R	=	-20.000

PARAMETRIC DATA

RUN NO. 37/0 RM/L = 1.26 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

RUN NO. 30/0 RM/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACN	ALPHA	CLM40	CY	CYN	CBL	CIV	CTNV	XCP/L	Q	CBV
2.003	-1.460	.073.0	.00380	-.00030	-.00010	.00320	-.00110	-.00650	197.40000	.00050
2.003	-.199	.06900	.00230	.00010	-.00010	.00710	-.00230	.66840	197.40000	.00110
2.003	1.314	.06120	.00330	.00030	-.00010	.00320	-.00160	1.10090	197.40000	.00090
2.003	3.331	.05210	-.00030	.00000	-.00070	.00360	-.00120	.03430	197.40000	.00050
2.003	9.348	.04130	.00110	.00100	-.00100	.00320	-.00110	.49740	197.40000	.00040
2.003	7.358	.03340	.00050	.00100	-.00060	.00360	-.00180	.56640	197.40000	.00070
2.003	9.387	.02020	.00140	.00110	-.00030	.00380	-.001.0	.59430	197.40000	.00060
2.003	12.410	.02350	-.00160	.00090	-.00080	.00070	.00030	.60880	197.40000	-.00010
2.003	15.490	.02870	.00030	.00030	-.00070	.00230	-.00030	.61630	197.40000	-.00020
2.003	18.480	.01730	.00010	.00060	-.00060	.00240	-.00070	.62270	197.40000	.00000
2.003	21.510	.01280	-.00160	.00080	-.00090	.00260	-.00070	.62660	197.40000	.00020
2.003	24.540	.00730	-.00210	.00090	-.00090	.00120	-.00010	.62970	197.40000	-.00020
2.003	28.350	.00330	-.00020	.00040	-.00110	.00260	-.00050	.63150	197.40000	-.00010
2.003	32.000	-.00482	-.00072	.00024	-.00012	-.00012	.00003	-.14762	.00000	-.00003

RE,

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BPCR = 2.45E-05  VU = 1.500 IN.
LRF = 4.2E-04  LF = 1.000 IN.
BRCF = 20.004  LF = 11.200 IN.
SCALE = 330  ALL

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42/ 5 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

RUN NO. 35, 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	CLMFLC	CY	CYN	CBL	CYV	CYNV	XCP/L	q	CBLV
-1.502	.07850	-.00890	-1.00020	.00000	.00380	-.00170	.80690	565.90000	.00130
-.920	.07230	.00860	-.00510	.00020	.00350	-.00160	.86690	565.90000	.00120
1.328	.06390	.00860	.00020	.00030	.00350	-.00160	1.09220	565.90000	.00120
3.363	.05560	.00780	.00340	.00000	.00250	-.00130	-.00770	565.90000	.00100
5.433	.04410	.00630	.00060	-.00020	.00200	-.00110	.48670	565.90000	.00090
7.490	.03550	.00610	.00100	-.00020	.00170	-.00100	.56440	565.90000	.00080
9.550	.02370	.00340	.00170	-.00040	.00190	-.00100	.59270	565.90000	.00080
12.640	.02000	.00360	.00130	-.00030	.00180	-.00090	.60940	565.90000	.00060
15.740	.02210	.00810	.00170	-.00050	.00080	-.00050	.61700	565.90000	.00040
18.840	.01810	.00430	.00210	-.00070	.00060	-.00020	.62240	565.90000	-.00010
21.940	.01230	.00350	.00240	-.00060	-.00250	.00090	.62680	565.90000	-.00030
25.040	.00860	.00300	.00290	-.00080	-.00170	.00090	.62920	565.90000	-.00060
28.930	.00600	.00220	.00160	-.00040	-.00230	.00110	.63070	565.90000	-.00070
GRADIENT	-.00313	-.00044	.00013	-.00000	-.00025	.00008	-.13331	.00000	-.00006

(AEK020) (12 MAR 74)

REFERENCE DATA

BRP = 2.4210 SQ.FT. ZMRP = 32.3510 IN.
 LRP = 14.2440 IN. YMRP = .0030 IN.
 BRP = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0350 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = -20.000
 AILROM = .000 BSFLAP = -11.700
 SPCBRK = 55.000 RUDDER = .000
 ELEV-L = -20.000 ELEV-R = -20.000

RUN NO. 41/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	FWD	CY	CYN	CBL	CYV	CYV	XCP/L	Q	CBLV
1.001	-1.338	.00920	-.00110	-.00100	-.00110	-.00110	-.00110	.84350	911.10000	.00060
1.001	-.218	.00830	-.00100	-.00120	-.00140	-.00140	-.00140	.91140	911.10000	.00020
1.001	1.365	.00930	-.00110	-.00110	.00000	.00000	.00000	1.16900	911.10	.00040
1.001	3.470	.00790	-.00100	-.00120	.00000	.00000	.00000	.19470	911.10000	.00030
1.001	5.373	.00680	-.00100	-.00120	-.00030	-.00030	-.00030	.45450	911.10000	.00030
1.001	7.681	.00560	-.00060	-.00080	.00040	.00040	.00040	.55180	911.10000	.00040
1.001	9.784	.00370	-.00010	-.00060	.00050	.00050	.00050	.59050	911.10000	.00030
1.001	12.960	.00240	-.00020	-.00050	-.00100	-.00100	-.00100	.61400	911.10000	.00010
1.001	16.130	.00140	-.00020	-.00050	.00020	.00020	.00020	.62450	911.10000	.00020
1.001	19.310	.00020	.00010	.00000	.00060	.00060	.00060	.62780	911.10000	.00010
1.001	22.490	.00020	.00040	.00000	-.00020	-.00020	-.00020	.62980	911.10000	-.00020
1.001	25.690	.00070	.00070	.00020	-.00010	-.00010	-.00010	.63110	911.10000	-.00030
1.001	29.130	.00060	.00090	.00050	-.00120	-.00120	-.00120	.62720	911.10000	-.00010
1.001	GRADIENT	-.00747	-.00023	-.00001	-.00003	-.00008	-.00008	-.13196	.00000	-.00004

RUN NO. 40/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMP/D	CY	CYN	CBL	CYV	CYV	XCP/L	Q	CBLV
2.003	-1.338	.00700	.00130	-.00110	.00010	.00360	-.00160	.80410	872.90000	.00140
2.003	-.230	.00100	.00120	.00000	.00000	.00320	-.00170	.86160	872.90000	.00130
2.003	1.338	.00310	.00170	-.00110	.00020	.00250	-.00150	1.03100	872.90000	.00120
2.003	3.420	.00270	.00180	.00090	.00030	.00270	-.00150	.05740	872.90000	.00120
2.003	5.320	.00230	.00060	-.00080	.00010	.00230	-.00140	.45720	872.90000	.00110
2.003	7.601	.00390	.00070	-.00070	.00040	.00260	-.00150	.56910	872.90000	.00110
2.003	9.697	.00290	.00020	-.00050	.00030	.00180	-.00120	.55190	872.90000	.00070
2.003	12.840	.00240	.00090	-.00050	.00040	.00200	-.00120	.60390	872.90000	.00030
2.003	16.000	.00130	.00060	-.00020	.00070	.00130	-.00060	.61760	872.90000	.00020
2.003	19.150	.00160	.00060	.00040	.00050	.00070	.00010	.62360	872.90000	.00010
2.003	22.310	.00110	.00060	.00000	.00060	-.00020	.00020	.62740	872.90000	-.00010
2.003	25.470	.00070	.00030	.00010	.00030	-.00020	.00020	.63010	872.90000	-.00040
2.003	29.420	.00060	.00060	.00190	.00020	-.00490	.00190	.63070	872.90000	.00100
2.003	GRADIENT	-.00492	-.00046	.00003	.00003	-.00019	.00006	-.13761	.00000	-.00004

PARAMETRIC DATA

BEVA	=	.000	ELEVON	=	-10.000
AILRON	=	10.000	BDFLAP	=	-11.700
SPDBRK	=	55.000	RUDDER	=	.000
ELEV-L	=	.000	ELEV-R	=	-20.000

GRADIENT INTERVAL = -5.00/ 2.00

RUN NO. 43/0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
-1.537	.05330	.00570	.00350	.01090	.00490	-.00210	.73450	503.10000	.00140
-1.215	.04820	.00500	.00340	.01040	.00460	-.00200	.85410	563.10000	.00140
1.327	.03920	.00620	.00300	.01060	.00390	-.00220	1.54700	563.10000	.00140
3.391	.02870	.00490	.00290	.01000	.00380	-.00170	.47330	563.10000	.00120
5.451	.01900	.00480	.00290	.00960	.00390	-.00170	.58470	563.10000	.00110
7.497	.01100	.00530	.00280	.00930	.00340	-.00160	.61480	563.10000	.00100
9.563	.00510	.00500	.00260	.00890	.00370	-.00150	.62650	563.10000	.00090
12.650	.00030	.00570	.00200	.00900	.00310	-.00120	.63250	563.10000	.00070
15.740	-.00380	.00520	.00190	.00910	.00240	-.00080	.63520	563.10000	.00040
18.640	-.00680	.00500	.00190	.00920	.00080	-.00020	.63750	563.10000	.00000
21.940	-.01380	.00370	.00160	.00920	-.00010	.00020	.63900	563.10000	-.00030
25.040	-.02040	.00340	.00140	.00960	.00030	.00030	.64070	563.10000	-.00040
28.910	-.02500	.00370	-.00060	.00990	.00130	-.00010	.64040	563.10000	-.00020
GRADIENT	-.00495	-.00009	-.00013	-.00015	-.00028	.00007	-.03298	.00000	-.00004

DATE 16 JUL 74

TABULATED SOURCE DATA - Q4538

PAGE 72

ARC 97-747 Q4538 B C M F W1 V NOM. RM/L

(AEK022) (12 MAR 74)

REFERENCE DATA

PARAMETRIC DATA

BREF = 2.4210 SQ.FT. γ = 32.3010 IN.
 CREF = 14.2440 IN. γ_c = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

BETA = .000 ELEVOM = -20.000
 ATLROM = 20.000 BDFLAP = -11.700
 SPCBRK = 55.000 RUOGER = .000
 ELEV-L = .000 ELEV-R = -40.000

RUN NO. 46/ 0 RM/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFD	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
1.600	-1.503	.11210	-.03620	.02370	.02230	-.00930	.00470	.84050	587.40000	-.00280
1.600	-.217	.10030	-.03640	.02430	.02180	-.00900	.00440	.90880	587.40000	-.00260
1.600	1.337	.08710	-.03540	.02350	.02130	-.00790	.00380	1.20600	587.40000	-.00220
1.600	3.401	.06930	-.03310	.02190	.02130	-.00590	.00310	.07080	587.40000	-.00180
1.600	5.473	.05220	-.03140	.01950	.02030	-.00520	.00270	.50280	587.40000	-.00150
1.600	7.543	.03540	-.02830	.01760	.02040	-.00410	.00200	.58080	587.40000	-.00100
1.600	9.605	.02160	-.02780	.01650	.01910	-.00190	.00110	.60970	587.40000	-.00070
1.600	12.720	.00660	-.02090	.01370	.01760	-.00250	.00120	.62770	587.40000	-.00060
1.600	15.820	-.00310	-.01460	.01090	.01690	-.00260	.00120	.63570	587.40000	-.00070
1.600	18.930	-.01280	-.01100	.00950	.01700	-.00190	.00100	.63880	587.40000	-.00070
1.600	22.040	-.01520	-.00960	.00880	.01720	-.00220	.00130	.63880	587.40000	-.00090
1.600	25.180	-.01680	-.00620	.00700	.01670	-.00360	.00200	.63880	587.40000	-.00130
1.600	29.080	-.00570	-.00620	.00130	.01570	.00010	.00030	.63450	587.40000	-.00040
1.600	GRADIENT	-.00858	.03100	-.00075	-.00020	.00071	-.00033	-.14125	.50000	.00021

RUN NO. 45/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFD	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
2.002	-1.557	.06900	-.00920	.01410	.01830	.00400	-.00170	.79150	565.20000	-.00120
2.002	-.217	.06110	-.01020	.01360	.01790	.00310	-.00140	.84750	565.20000	-.00110
2.002	1.329	.05210	-.01120	.01330	.01700	.00270	-.00130	1.12400	565.20000	-.00100
2.002	3.373	.04090	-.01030	.01230	.01630	.00340	-.00150	.28350	565.20000	-.00100
2.002	5.428	.03000	-.00950	.01100	.01540	.00320	-.00140	.54340	565.20000	-.00090
2.002	7.484	.02090	-.00760	.00970	.01500	.00210	-.00090	.59520	565.20000	-.00070
2.002	9.549	.01600	-.00620	.00910	.01470	.00270	-.00110	.61210	565.20000	-.00070
2.002	12.640	.01010	-.00120	.00700	.01420	.00100	-.00040	.62360	565.20000	-.00040
2.002	15.740	.00590	.00150	.00570	.01400	.00130	-.00040	.62870	565.20000	-.00020
2.002	18.840	.00080	.00170	.00330	.01380	-.00010	.00010	.63210	565.20000	-.00000
2.002	21.930	-.00520	.00380	.00350	.01350	-.00040	.00020	.63510	565.20000	-.00030
2.002	25.030	-.01150	.00440	.00300	.01380	-.00010	.00040	.63730	565.20000	-.00030
2.002	28.900	-.01470	.01000	.00000	.01430	.00070	.00000	.63770	565.20000	-.00020
2.002	GRADIENT	-.00570	-.00023	-.00035	-.00046	-.00011	.00004	-.06980	.50000	-.00004

ARC 97-747 04538 S C M F W I V MOM. RN/L

(AEK023) (12 MAR 74)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2.210 98.73
 LREF = 11.2440 IN.
 BREF = 22.1004 IN.
 SCALE = .0000 SCALE

BETA = .000 ELEVOM = -20.000
 AILROM = .000 BDFLAP = -11.700
 SPBRK = 55.000 RUDDER = .000
 ELEV-L = -40.000 ELEV-R = -40.000

48/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLIMFO	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
1.600	-1.324	.10890	.00990	.00990	-.00100	-.00240	.00110	.83960	588.60000	-.00070
1.600	-1.236	.10120	.01090	.00010	-.00110	-.00190	.00100	.84030	588.60000	-.00070
1.600	1.311	.08970	.00890	.00070	-.00120	-.00160	.00090	.97620	588.60000	-.00060
1.600	3.363	.07650	.00620	.00140	-.00130	-.00340	.00150	1.56700	588.60000	-.00070
1.600	5.424	.06520	.00140	.00130	-.00160	-.00260	.00120	1.07720	588.60000	-.00070
1.600	7.473	.05540	.00420	.00120	-.00190	-.00450	.00220	.43560	588.60000	-.00130
1.600	9.535	.04980	.00570	.00110	-.00200	-.00450	.00220	.38450	588.60000	-.00130
1.600	12.630	.04460	.00670	.00070	-.00270	-.00450	.00220	.38450	588.60000	-.00130
1.600	15.730	.04030	.00620	.00120	-.00330	-.00450	.00220	.38450	588.60000	-.00130
1.600	18.830	.03570	.00550	.00140	-.00350	-.00450	.00220	.38450	588.60000	-.00130
1.600	21.930	.03120	.00440	.00110	-.00360	-.00450	.00220	.38450	588.60000	-.00130
1.600	25.030	.02650	.00350	.00130	-.00400	-.00450	.00220	.38450	588.60000	-.00130
1.600	28.930	.02370	.00380	.00040	-.00040	-.00040	.00020	.38450	588.60000	-.00020
1.600	GRADIENT	-.00903	-.00034	.00053	-.00006	-.00020	.00008	.14635	.00000	-.00000

47/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLIMFO	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
2.002	-1.324	.10890	.00990	.00990	.00040	.00340	-.00160	.80770	567.40000	-.00100
2.002	-1.236	.10120	.01090	.00010	.00030	.00220	-.00120	.84590	567.40000	-.00090
2.002	1.311	.08970	.00890	.00070	.00010	.00230	-.00120	.94190	567.40000	-.00090
2.002	3.363	.07650	.00620	.00140	.00030	.00190	-.00130	2.19300	567.40000	.00070
2.002	5.424	.06520	.00140	.00130	-.00030	.00230	-.00110	.27730	567.40000	.00080
2.002	7.473	.05540	.00420	.00120	-.00050	.00190	-.00090	.49560	567.40000	.00060
2.002	9.535	.04980	.00570	.00110	-.00020	.00240	-.00110	.55290	567.40000	.00070
2.002	12.630	.04460	.00670	.00070	-.00060	.00270	-.00100	.58640	567.40000	.00060
2.002	15.730	.04030	.00620	.00120	-.00030	.00110	-.00090	.60200	567.40000	.00030
2.002	18.830	.03570	.00550	.00140	-.00050	.00000	.00010	.61120	567.40000	-.00010
2.002	21.930	.03120	.00440	.00110	-.00060	-.00060	.00030	.61720	567.40000	.00020
2.002	25.030	.02650	.00350	.00130	-.00040	-.00040	.00030	.62150	567.40000	-.00030
2.002	28.930	.02370	.00380	.00040	-.00040	-.00040	.00020	.62430	567.40000	-.00030
2.002	GRADIENT	-.00671	-.00085	.00022	-.00003	-.00026	.00011	.27785	.00000	-.00006

(AEK024) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 98-FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AIRLON = .000 BDFLAP = -11.700
 SPCBRK = 25.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 56/ 0 RN/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWC	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
1.600	-1.534	.02520	.00420	.00070	-.00050	.00030	-.00050	.74100	598.10000	.00030
1.600	-.207	.01530	.00250	.00080	-.00060	-.00270	.00070	.85120	598.10000	-.00010
1.600	1.345	.00400	.00270	.00080	-.00050	-.00070	-.00010	.60280	598.10000	.00020
1.600	3.417	-.01000	.00240	.00070	-.00070	-.00040	.00000	.65830	598.10000	.00030
1.600	5.471	-.02400	.00340	.00060	-.00060	.00020	-.00020	.66960	598.10000	.00030
1.600	7.546	-.03810	.00420	.00050	-.00010	-.00020	-.00010	.67420	598.10000	.00020
1.600	8.575	-.04070	.00420	.00050	-.00050	.00120	-.00030	.67220	598.10000	.00040
1.600	12.710	-.05610	.00390	.00030	.00030	.00000	-.00010	.66940	598.10000	.00020
1.600	15.820	-.06710	.00410	.00020	.00070	.00160	-.00050	.66770	598.10000	.00050
1.600	18.960	-.07390	.00360	.00040	.00100	.00050	-.00020	.66480	598.10000	.00020
1.600	22.040	-.07570	.00320	.00040	.00120	-.00070	.00020	.66090	598.10000	.00000
1.600	25.170	-.07760	.00280	.00050	.00120	-.00110	.00040	.65810	598.10000	-.00020
1.600	29.080	-.06590	.00180	.00000	.00160	-.00050	.00020	.65160	598.10000	-.00010
	GRADIENT	-.00711	-.00030	-.00000	-.00003	.00003	-.00001	-.02998	.00000	.00002

RUN NO. 49/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV	
2.002	-1.548	.00490	.00370	.00140	-.00010	.00210	-.00100	.65560	570.60000	.00090
2.002	-.216	-.00070	.00490	.00140	.00000	.00360	-.00150	.62310	570.60000	.00110
2.002	1.325	-.00780	.00390	.00130	-.00010	.00250	-.00110	.72190	570.60000	.00090
2.002	3.383	-.01680	.00420	.00160	-.00030	.00240	-.00100	.68840	570.60000	.00080
2.002	5.438	-.02530	.00390	.00150	-.00030	.00230	-.00100	.68170	570.60000	.00080
2.002	7.488	-.03220	.00480	.00170	-.00030	.00310	-.00130	.67700	570.60000	.00090
2.002	9.551	-.03610	.00340	.00150	-.00020	.00160	-.00070	.67100	570.60000	.00060
2.002	12.640	-.04010	.00340	.00160	-.00020	.00210	-.00030	.66750	570.60000	.00040
2.002	14.700	-.04310	.00320	.00170	-.00020	.00180	-.00060	.66350	570.60000	.00040
2.002	17.740	-.04390	.00320	.00190	-.00010	.00150	-.00040	.66000	570.60000	.00030
2.002	18.640	-.04750	.00410	.00220	.00000	-.00010	.00050	.65700	570.60000	-.00040
2.002	21.940	-.05190	.00340	.00200	-.00020	-.00110	.00050	.65320	570.60000	-.00040
2.002	25.040	-.05650	.00390	.00190	.00010	-.00070	.00050	.65390	570.60000	-.00040
2.002	28.910	-.03840	.00320	.00130	.00000	-.00080	.00060	.65150	570.60000	-.00050
	GRADIENT	-.00442	-.00032	-.00003	-.00005	-.00003	.00003	.01164	.00000	-.00003

(AEK028) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 88-FT. ZMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0300 IN.
 BREF = 28.1004 IN. ZMRP = 11.2300 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 ELEVOM = .000
 AILROM = .000 BDFLAP = -11.700
 SPOBCK = 25.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 54/ 0 RN/L = 2.7% GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	CBLV
1.000	-5.041	-.05060	.08080	.00180	.00630	.02860	-.01360	.67330	596.60000
1.000	-3.601	-.04690	.04980	.00130	.00280	.01730	-.00840	.67100	596.60000
1.000	-.980	-.04740	.01990	.00090	.00050	.00520	-.00270	.67140	596.60000
1.000	.036	-.04770	.00430	.00060	-.00020	.00020	-.00010	.67150	596.60000
1.000	1.041	-.04670	-.00910	.00020	-.00050	-.00610	.00280	.67080	596.60000
1.000	3.076	-.04740	-.04010	-.00110	-.00320	-.01630	.00780	.67110	596.60000
1.000	5.107	-.04730	-.07040	-.00320	-.00370	-.02620	.01270	.67070	596.60000
1.000	7.141	-.04650	-.10390	-.00470	-.00890	-.03820	.01830	.67010	596.60000
1.000	7.545	-.04590	-.11050	-.00510	-.00960	-.04220	.02000	.66950	596.60000
GRADIENT		-.00004	-.01474	-.00039	-.00094	-.00565	.00267	-.00501	-.00000

RUN NO. 51/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	CBLV
2.002	-5.433	-.03880	.08690	.00490	.00440	.02740	-.01290	.67390	580.70000
2.002	-3.362	-.03720	.05350	.00400	.00230	.01690	-.00810	.66970	580.70000
2.002	-1.369	-.03680	.02160	.00270	.00040	.00730	-.00340	.66960	580.70000
2.002	-.348	-.03720	.00720	.00180	-.00030	.00260	-.00110	.66980	580.70000
2.002	.677	-.03690	-.00870	.00100	-.00120	-.00370	.00170	.66970	580.70000
2.002	2.702	-.03670	-.04160	-.00010	-.00310	-.01480	.00700	.66940	580.70000
2.002	4.730	-.03660	-.07370	-.00390	-.00550	-.02570	.01220	.66930	580.70000
2.002	6.766	-.03640	-.10840	-.00210	-.00840	-.03660	.01720	.67060	580.70000
2.002	9.803	-.04190	-.14590	-.00480	-.01070	-.00000	.00000	.67370	580.70000
GRADIENT		.00005	-.01567	-.00062	-.00094	-.00331	.00252	-.00005	.00000

97-747 5-538 B C M F W I V NOM. R' / C

(AEK027) (12 MAR 74)

03438

SREF = 2.420
 LREF = 14.240
 ORF = 20.100
 SCALE = .350 SCALE

XMR	=	7.3010 IN.
YMR	=	7.0000 IN.
ZMR	=	11.2500 IN.

Q15 MC	53/0	ANL =	2.77	GRADIENT INTERVAL =	-5.00/	5.00
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PARAMETRIC DATA

ALPHA	=	20.000	ELEVON	=	.000
AILRON	=	.000	BDFLAP	=	-11.700
SPDRK	=	25.000	RUDDER	=	.000
ELEV-L	=	.000	ELEV-R	=	.000

MACH	BETA	GRADIENT
1.600	-5.047	
1.605	-3.5	
1.610	-1.950	
1.615	.54	
1.620	2.091	
1.625	3.637	
1.630	5.180	
1.635	6.721	
1.640	8.279	

CYV	CYV	CYV	XP/L	Q
-0.0790	0.0040	0.6200	598.1	
-0.0390	0.0060	0.6240	598.1	
-0.0190	0.0010	0.6280	598.1	
-0.0030	-0.0010	0.6240	598.1	
-0.0180	-0.0010	0.6200	598.1	
-0.0470	0.0050	0.6230	59.1	
-0.0600	0.0030	0.6210	59.1	
-0.0590	0.0110	0.6300	598.1	
-0.0510	0.0470	0.6090	598.1	
0.0174	-0.0010	-0.0000	-0.0	

RUN NO.	52/ 9	RM/	=	2.72	GRADIENT INTERVAL	=	-5.00/	5.00
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MACH	BETA	GRADIENT
2.002	-5.412	
2.002	-3.362	
2.002	-1.319	
2.002	-.294	
2.002	.718	
2.002	2.770	
2.002	4.801	
2.002	6.844	
2.002	8.902	

CYV	CYNW	XP/L	Q
- 0.1160	.00230	.65710	579.9.9
.00990	.00240	.65640	579.9.9
.00280	.00080	.65600	579.9.9
.00140	-.00040	.65590	579.9.9
.00340	-.00100	.65500	579.9.9
.00760	-.00170	.65640	579.9.9
.00940	-.00150	.65750	579.9.9
.00370	.00120	.65840	579.9.9
-.00290	.00420	.65840	579.9.9
.00227	-.00949	.00014	

ARC 97-747 Q4338 B C M F W2 V NOM. RN/L

(AEK080) (12 MAR 74)

REFERENCE DATA

SRFP = 2.4210 80.FT. XMRP = 32.2010 IN.
 LRFP = 14.2440 IN. YMRP = .0000 IN.
 BRFP = 26.1594 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AILROM = .000 BDFLAP = .000
 SPCBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 58/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWD	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
1.600	-1.495	.04240	.00600	.00060	-.00020	.00190	-.00090	.80630	593.40000	.00060
1.600	-.181	.03180	.00560	.00070	-.00010	-.00080	.00050	1.06400	593.40000	.00020
1.600	1.358	.01990	.00560	.00070	-.00020	.00060	-.00050	.47100	593.40000	.00030
1.600	3.400	.00450	.00570	.00070	-.00030	.00140	-.00070	.52100	593.40000	.00050
1.600	5.490	-.01120	.00660	.00060	-.00070	.00090	-.00050	.64990	593.40000	.00040
1.600	7.562	-.02670	.00670	.00030	.00030	.00170	-.00080	.66170	593.40000	.00050
1.600	9.635	-.03580	.00660	.00040	.00040	.00120	-.00060	.66340	593.40000	.00040
1.600	12.710	-.04800	.00750	.00030	.00000	.00150	-.00070	.66380	593.40000	.00040
1.600	15.850	-.06000	.00760	.00020	.00030	.00120	-.00060	.66280	593.40000	.00040
1.600	18.940	-.06870	.00670	.00040	.00070	.00030	-.00020	.66230	593.40000	.00020
1.600	22.060	-.07390	.00600	.00080	.00070	-.00030	.00000	.66090	593.40000	.00000
1.600	25.190	-.07720	.00490	.00110	.00020	.00200	.00080	.65770	593.40000	-.00020
1.600	29.070	-.06930	.00540	.00070	.00100	-.00020	.00010	.65080	593.40000	-.00020
1.600	GRADIENT	-.06773	-.00005	.00002	-.00003	.00004	-.00001	-.06990	.00000	.00000

RUN NO. 57/ 0 RN/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWD	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
2.002	-1.501	.02040	.00560	.00100	.00030	.00480	-.00190	.72350	565.30000	.00120
2.002	-.197	.01430	.00440	.00110	.00010	.00390	-.00160	.79340	565.30000	.00100
2.002	1.302	.00850	.00390	.00120	.00000	.00200	-.00100	.55030	565.30000	.00070
2.002	3.391	-.00350	.00350	.00120	-.00010	.00290	-.00130	.64450	565.30000	.00090
2.002	5.457	-.01330	.00340	.00110	-.00020	.00370	-.00150	.65860	565.30000	.00030
2.002	7.492	-.02110	.00460	.00100	-.00020	.00250	-.00110	.66190	565.30000	.00070
2.002	9.536	-.02670	.00560	.00100	.00000	.00300	-.00120	.66130	565.30000	.00050
2.002	12.650	-.03200	.00570	.00090	.00000	.00230	-.00090	.65780	565.30000	.00050
2.002	15.730	-.03760	.00590	.00100	.00000	.00150	-.00050	.65630	565.30000	.00030
2.002	18.840	-.04400	.00470	.00110	-.00020	.00010	.00000	.65510	565.30000	-.00010
2.002	22.000	-.05590	.00440	.00100	-.00030	-.00070	.00030	.65460	565.30000	-.00030
2.002	25.010	-.05910	.00410	.00080	-.00020	-.00050	.00040	.65470	565.30000	-.00040
2.002	28.920	-.06540	.00410	.00010	-.00010	-.00020	.00030	.65360	565.30000	-.00030
2.002	GRADIENT	-.00491	-.00040	.00004	-.00008	-.00043	.00014	-.02842	-.00000	-.00007

ARC 97-747 Q4538 B C M F WL V MOM. RN/L

(AEK030) (12 MAR 74)

REFERENCE DATA

Z 2.4210 98.FT. ZMRP = 32.3010 IN.
 Z 14.2440 IN. ZMRP = .0000 IN.
 Z 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHA = 10.000 ELEVOM = .000
 AIRLON = .000 BDFLAP = -11.700
 SPDBRK = 35.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 63/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CYV	CYRV	XCP/L	Q	CBV
1.600	-5.047	-.03130	.07060	.00760	.00300	.01750	-.00760	.65840	596.30000	.00500
1.600	-3.508	-.02760	.03910	.00760	-.00110	.00690	-.00220	.65570	596.30000	.00210
1.600	-.998	-.02760	.00880	.00750	-.00340	-.00650	.00400	.65370	596.30000	-.00200
1.600	.020	-.02770	-.00680	.00730	-.00400	-.01180	.00660	.65560	596.30000	-.00370
1.600	1.034	-.02700	-.02060	.00670	-.00490	-.01680	.00900	.65510	596.30000	-.00340
1.600	3.070	-.02560	-.05070	.00590	-.00720	-.02730	.01410	.65410	596.30000	-.00890
1.600	5.109	-.02590	-.08330	.00460	-.01050	-.04000	.02010	.65400	596.30000	-.01290
1.600	7.145	-.02500	-.11660	.00330	-.01370	-.05370	.02630	.65330	596.30000	-.01700
1.600	9.185	-.02500	-.15120	.00230	-.01640	-.06470	.03170	.65320	596.30000	-.02060
GRADIENT		.00033	-.01474	-.00029	-.00098	-.00557	.00266	-.00027	.00000	-.00185

RUN NO. 60/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CYV	CYRV	XCP/L	Q	CBV
2.002	-5.433	-.02250	.07720	.00990	.00170	.02070	-.00890	.65550	571.70000	.00660
2.002	-3.374	-.02340	.04370	.00930	-.00070	.00930	-.00340	.65360	571.70000	.00280
2.002	-1.355	-.01940	.01070	.00820	-.00280	-.00350	.00250	.65270	571.70000	-.00110
2.002	-.349	-.01930	-.00460	.00740	-.00360	-.00830	.00490	.65250	571.70000	-.00280
2.002	.667	-.01850	-.02060	.00660	-.00460	-.01570	.00920	.65180	571.70000	-.00480
2.002	2.698	-.01760	-.05340	.00570	-.00670	-.02470	.01290	.65080	571.70000	-.00830
2.002	4.731	-.01700	-.08630	.00530	-.00950	-.03680	.01870	.65010	571.70000	-.01220
2.002	6.781	-.01810	-.12160	.00500	-.01280	-.04910	.02440	.65120	571.70000	-.01590
2.002	8.779	-.02050	-.14170	.00120	-.01490	-.05560	.02790	.65330	571.70000	-.01950
GRADIENT		.00043	-.01600	-.00052	-.00106	-.00560	.00270	-.00044	.00000	-.00194

RECEIVED DA

GREF = 2.421 88 F. IN. = 32.3010 IN.
 LREF = 14.2440 IN. --GP = .0005 IN.
 BREF = 26.1064 IN. 425 = 11.2503 IN.
 SCALE = .0300 SCALE

ALPHA =	20.000	ELEVON =	.000
ATLON =	.000	BUFLAP =	-11.700
SPOBRK =	95.000	RUDDER =	-10.000
ELEV-L =	.000	ELEV-R =	.000

PARAMETRIC DATA

... NC. 64/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MECH	BETA	CLMFAC	CT	CYN	CBL	CYV	CYVV	XCP/L	Q	CBLY
1.000	5.044	-0.5680	0.9520	0.1840	0.0090	-0.0190	0.0049	0.6550	595.10000	-0.00190
1.000	-2.997	-0.5670	0.9490	0.1450	-0.0010	-0.0160	0.0620	0.5580	595.10000	-0.00290
1.000	-0.350	-0.5670	0.9540	0.0060	-0.0020	-0.0160	0.0660	0.6560	595.10000	-0.00360
1.000	0.062	-0.5640	0.9780	0.0030	-0.0030	-0.0130	0.0730	0.6530	595.10000	-0.00410
1.000	1.071	0.790	-0.2040	0.0930	-0.0040	-0.0120	0.0760	0.6510	595.10000	-0.00440
1.000	3.115	-0.5610	0.9420	-0.0070	0.0080	-0.0090	0.0720	0.5530	595.10000	-0.00470
1.000	5.166	-0.5590	0.9390	0.0090	0.0070	-0.0060	0.0630	0.5530	595.10000	-0.00470
1.000	7.241	-0.5560	0.9340	0.0460	-0.0040	-0.0040	0.0600	0.5530	595.10000	-0.00490
1.000	9.275	-0.5590	0.9360	0.0950	-0.0000	-0.0010	0.0740	0.5510	595.10000	-0.00590
GRACIENT	0.0014	0.279	-0.229	-0.0095	0.0019	-0.0010	0.0020	-0.0008	0.0000	-0.00630

61/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.09/ 5.06

MACRO	BETA	CLIMFWD	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CB/L
2.002	-5.410	-.03440	.06280	.02220	.00330	-.01910	.00860	.65090	571.50000	-.03250
2.002	-3.369	-.03350	.03220	.01700	.00030	-.01910	.01070	.64950	571.50000	-.00360
2.002	-1.315	-.03350	.00660	.01070	-.00210	-.01420	.00580	.64950	571.50000	-.00360
2.002	-.312	-.03310	-.00450	.00780	-.00330	-.01200	.00640	.64950	571.50000	-.00360
2.002	.709	-.03440	-.01730	.00450	-.00450	-.01060	.00630	.64900	571.50000	-.00370
2.002	2.754	-.03390	-.03910	-.00230	-.00660	-.00510	.00470	.64960	571.50000	-.00330
2.002	4.784	-.03360	-.06380	-.00770	-.00940	-.00150	.00400	.65130	571.50000	-.00340
2.002	6.641	-.04360	-.09580	-.01180	-.01320	-.00440	.00530	.65310	571.50000	-.00350
2.002	8.004	-.04430	-.01320	-.01400	-.01790	-.01190	.00860	.65360	571.50000	-.00650
GRADIENT		-.00040	-.01165	-.00307	-.00117	.00217	-.00047	.00019	.00000	-.00004

DATE 18 JUL 74

TABULATED SOURCE DATA - 04338

PAGE 82

ARC 97-747 04338 B C M F W1 V MON. RN/L

(ACK032) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 30.FT. ZMRP = 32.3010 IN.
 LREF = 14 2440 IN. YMRP = .0000 IN.
 BRFP = 20.1904 IN. ZMRP = 11.2300 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 ELEVOM = .000
 AIRLON = .000 BD-LAP = -11.799
 SFDBRK = 55.000 RUDDER = -25.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 88/ 0 RN/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
1.000	-5.042	-.04970	.04630	.02620	-.00180	-.02910	.01240	.65250	587.10000	-.00620
1.000	-3.002	-.04850	.01700	.02250	-.00470	-.02980	.01390	.65250	587.10000	-.00740
1.000	-.952	-.04750	-.01060	.01610	-.00670	-.02920	.01490	.65200	587.10000	-.00840
1.000	.062	-.04770	-.02170	.01530	-.00730	-.02820	.01510	.65210	587.10000	-.00860
1.000	1.095	-.04710	-.03510	.01240	-.00800	-.02690	.01510	.65190	587.10000	-.00870
1.000	3.122	-.04740	-.05000	.00620	-.00970	-.02290	.01460	.65190	587.10000	-.00910
1.000	5.175	-.04760	-.06240	-.00180	-.01150	-.01750	.01300	.65200	587.10000	-.00670
1.000	7.217	-.04990	-.10850	-.00980	-.01310	-.01110	.01060	.55290	587.10000	-.00770
1.000	9.270	-.05280	-.14020	-.01640	-.01500	-.01390	.01090	.65420	587.10000	-.00790
GRADIENT	.00018	.00018	-.01234	-.00267	-.00060	.00113	.00011	-.00009	-.00003	-.00025

RUN NO. 85/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
2.002	-5.353	.01840	.06970	.01630	-.00610	.01140	-.00230	.82370	565.50000	.00270
2.002	-3.488	.02470	.03110	.01710	-.00740	-.00370	.00470	.87450	565.50000	-.00190
2.002	-1.421	.02750	-.00300	.01672	-.00650	-.01660	.01670	.88950	565.50000	-.00610
2.002	-.385	.02880	-.02440	.01670	-.00910	-.02670	.01490	.90520	565.50000	-.00870
2.002	.644	.02940	-.04240	.01660	-.00980	-.03100	.01740	.91580	565.50000	-.01070
2.002	2.704	.02940	-.07860	.01660	-.01100	-.04650	.02380	.93080	565.50000	-.01510
2.002	4.770	.02820	-.11570	.01760	-.01250	-.06080	.03040	.93420	565.50000	-.01950
2.002	5.797	.02750	-.13280	.01800	-.01340	-.06800	.03360	.93510	565.50000	-.02150
GRADIENT	.00041	.00041	-.01776	.00005	-.00062	-.00894	.00011	.00775	-.00000	-.00214

ARC 97-747 QAS38 B C M F W1 V NOM. RM/L

(AER034) (12 MAR 74)

REFERENCE DATA

REF = 2.4210 98-FT. ZMRP = 32.5016 IN.
 LREF = 14.2440 IN. ZMRP = .0000 IN.
 REF = 28.1924 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

ALPHA = 20.000 ELEVOM = .000
 AIRLON = .500 BDFLAP = -11.700
 SPCBRK = 55.000 RUDDER = -25.000
 ELEV-L = .500 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 70/ 0 RM/L = 2.74 --ADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFLO	CY	CYN	CBL	CYV	CYV	XCP/L	Q	CBLV
1.000	7.177	.03820	.06470	.01410	-.00690	.01050	-.00170	1.06600	590.10000	.00230
1.000	-3.110	.04370	.02810	.01640	-.00840	.00590	.00590	1.07500	590.10000	-.00270
1.000	-1.034	.04640	-.00780	.01800	-.00990	-.02120	.01260	1.06700	590.10000	-.00730
1.000	-.023	.04660	-.02490	.01840	-.01030	-.02850	.01610	1.09800	590.10000	-.00550
1.000	1.009	.04710	-.04300	.01850	-.01110	-.03760	.01990	1.10400	590.10000	-.01200
1.000	3.072	.04760	-.07830	.01860	-.01200	-.03110	.02610	1.17100	590.10000	-.01630
1.000	5.139	.04760	-.11290	.01850	-.01340	-.06570	.03260	1.18600	590.10000	-.02060
1.000	6.165	.04730	-.13550	.01850	-.01420	-.07540	.03660	1.20300	590.10000	-.02310
	GRADIENT	.00060	-.01720	.00037	-.00037	-.00736	.00320	.01480	-.05000	.00221

RUN NO. 87/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFLO	CY	CYN	CBL	CYV	CYV	XCP/L	Q	CBLV
2.002	-5.415	-.03300	.04730	.02660	-.00030	-.02890	.01210	.61830	569.10000	-.00640
2.002	-3.371	-.02850	.01820	.02170	-.00350	-.02800	.01350	.64830	569.10000	-.00710
2.002	-1.328	-.02720	-.02660	.01500	-.00560	-.02460	.01290	.64570	569.10000	-.00710
2.002	-.310	-.02750	-.01410	.01270	-.00670	-.02220	.01220	.64590	569.10000	-.00700
2.002	.715	-.02770	-.02940	.00630	-.00780	-.02030	.01170	.64590	569.10000	-.00690
2.002	2.756	-.02990	-.04940	.00230	-.00940	-.01340	.00960	.64700	569.10000	-.00660
2.002	4.797	-.03370	-.07250	-.00310	-.01220	-.00910	.00840	.64870	569.10000	-.00610
2.002	6.839	-.03980	-.10180	-.00860	-.01520	-.00960	.00840	.65150	569.10000	-.00550
2.002	8.886	-.03870	-.13590	-.01140	-.01890	-.01520	.01090	.65110	569.10000	-.00820
	GRADIENT	-.00067	-.01095	-.00311	-.00106	.00249	-.00067	.00031	.00000	.00014



9 147 QAS3B B C M F W1 V MOM. RN/L

(AEK035) (12 MAR 74)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2.4210 39.F.
LREF = 14.2445 IN.
BREF = 26.1004 IN.
SCALE = .0300 SCALE

MRP = 32.3010 IN.
YMRP = .0000 IN.
ZMRP = 11.2500 IN.

ALPHA = .000 ELEVOM = .000
ATLROM = .000 BDFLAP = -11.700
SPDBRK = 25.000 RUDDER = -10.000
ELEV-L = .000 ELEV-R = .000

RUN NO. 76/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH BETA CLFWC
1.601 -5.174 .01260
1.601 -3.155 .01260
1.601 -1.045 .01260
1.601 .01835 .01260
1.601 1.012 .01260
1.601 5.083 .01260
1.601 5.139 .01260
1.601 5.165 .01260
GRADIENT .00061

CY CYN CBL CBLV
.07860 .00350 -.00190 .85180
.34200 .00760 -.00340 .86450
.07610 .00930 -.00510 .88590
-.01140 .01000 -.00570 .89470
-.02930 .01060 -.02230 .90730
-.03480 .01110 -.00760 .93860
-.03910 .01140 -.00890 .97140
-.01750 .01150 -.00980 1.01300
-.01725 .00057 -.00667 .01181

Q CBLV
589.70000 .00720
589.70000 .00730
589.70000 .00740
589.70000 -.00310
589.70000 -.00710
589.70000 -.01770
589.70000 -.01630
589.70000 -.01870
.00000 -.00226

RUN NO. 71/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH BETA CLFWC
2.002 -5.543 .00550
2.002 -3.477 .00550
2.002 -1.413 .00550
2.002 .00190 .00550
2.002 .654 .00550
2.002 2.709 .00550
2.002 4.774 .00550
2.002 5.799 .00550
GRADIENT .00057

CY CYN CBL CBLV
.07920 .00910 -.00140 .55590
.34370 .00900 -.00250 .56940
.00600 .00840 -.00360 .56420
-.01120 .00820 -.00410 .55980
-.02910 .00810 .00470 .56350
-.05420 .00850 -.00610 .56560
-.10200 .01020 -.00790 .56000
-.12060 .01070 -.00880 .56130
-.01726 .00013 -.00065 .00572

Q CBLV
566.90000 .00720
566.90000 .00280
566.90000 -.00140
566.90000 -.00360
566.90000 -.00370
566.90000 -.01030
566.90000 -.01490
566.90000 -.01720
.00000 -.00215

ARC 97-747 Q433B 8 C M F Wt V MOM. RN/L

(AEK036) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 SQ.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 ELEVOM = .000
 AILROM = .000 BDFLAP = -11.700
 SPOBRK = 25.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 75/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMP/D	CY	CYN	CBL	CVV	CYV	CYNV	XCP/L	Q	CBV
1.001	-0.050	-0.04890	.06770	.00910	.00200	.01530	.00620	-.00620	.67210	590.30000	.00500
1.001	-5.018	-0.04520	.03740	.00890	-.00170	.00320	-.00040	-.00040	.66970	590.30000	.00110
1.001	-.992	-.04470	.00680	.00840	-.00380	-.00820	.00500	.00500	.66920	590.30000	-.00250
1.001	.022	-.04470	-.00740	.00800	-.00450	-.01270	.00730	.00730	.66930	590.30000	-.00410
1.001	1.037	-.04410	-.02240	.00760	-.00500	-.01840	.00980	.00980	.66870	590.30000	-.00580
1.001	3.067	-.04320	-.05180	.00630	-.00760	-.02880	.01190	.01190	.66780	590.30000	-.00930
1.001	5.099	-.04290	-.08310	.00440	-.01020	-.03900	.01980	.01980	.66740	590.30000	-.01270
1.001	6.112	-.04190	-.09830	.00340	-.01170	-.04410	.02240	.02240	.66650	590.30000	-.01450
1.001	7.135	-.04120	-.11520	.00270	-.01320	-.05140	.02540	.02540	.66600	590.30000	-.01650
1.001	9.172	-.04120	-.14930	.00120	-.01560	-.06130	.03020	.03020	.66560	590.30000	-.01980
1.001	GRADIENT	.00033	-.01463	-.00042	-.00093	-.00524	.00250	.00250	-.00731	-.00000	-.00170

RUN NO. 72/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMP/D	CY	CYN	CBL	CVV	CYV	CYNV	XCP/L	Q	CBV
2.002	-5.421	-.03770	-.06850	.01230	.00020	.01590	-.00640	-.00640	.67020	565.70000	.00510
2.002	-3.398	-.03600	-.03650	.01000	-.00160	.00610	-.00180	-.00180	.66880	565.70000	.00180
2.002	-1.358	-.03510	-.00740	.00800	-.00280	-.00420	.00310	.00310	.66820	565.70000	-.00150
2.002	-.342	-.03450	-.00720	.00680	-.00350	-.00870	.00530	.00530	.66770	565.70000	-.00300
2.002	.670	-.03430	-.02190	.00570	-.00430	-.01410	.00770	.00770	.66740	565.70000	-.00450
2.002	2.700	-.03250	-.05360	.00450	-.00610	-.02480	.01280	.01280	.66560	565.70000	-.00910
2.002	4.728	-.03220	-.08490	.00300	-.00860	-.03560	.01800	.01800	.66520	565.70000	-.01170
2.002	5.747	-.03260	-.10190	.00380	-.01040	-.04130	.02060	.02060	.66530	565.70000	-.01340
2.002	6.762	-.03360	-.11810	.00350	-.01170	-.04640	.02280	.02280	.66620	565.70000	-.01490
2.002	8.792	-.03560	-.15100	.00120	-.01410	-.05160	.02580	.02580	.66800	565.70000	-.01720
2.002	GRADIENT	.00050	-.01499	-.00074	-.00086	-.00514	.00243	.00243	.00049	.00000	-.00166

02 0538 B C M F W1 V MON. RM/L (AER037) (12 MAR 74)

2025-01-27

HREF = 2.4215 IN, XREF = 1.3015 IN,
 LREF = 14.2349 IN, YREF = 1.5000 IN,
 BREF = 20.1054 IN, ZREF = 11.2503 IN,
 SCALE = .0300 SCALE

STATION NO.	74/5	R ₂ /1	2.77	GRADIENT	INTERVAL =	-5.00/	5.00
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WACH	DETA	CLM4-0	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
1.601	-0.42	-0.07170	0.2700	0.0960	-0.0210	-0.01650	0.00370	56.610	590.30000	-0.00210
1.601	-2.998	0.27150	0.2900	0.1820	-0.0030	-0.01590	0.00650	56.160	590.30000	-0.00300
1.601	-1.954	0.27110	0.2650	0.1020	-0.0210	-0.01340	0.00670	56.140	590.30000	-0.00360
1.601	0.004	-0.07170	-0.0545	0.0741	0.0220	-0.01270	0.00590	56.160	590.30000	-0.00190
1.601	1.023	0.27110	0.2900	0.0480	-0.0330	-0.01270	0.00550	56.140	590.30000	-0.00280
1.601	3.133	0.26510	0.4850	0.0050	-0.0550	-0.0100	0.00780	56.670	590.30000	-0.00400
1.601	3.175	-0.06510	0.3000	0.0740	-0.0090	-0.00660	0.00720	56.030	590.30000	-0.00310
1.601	5.202	0.26550	0.1800	0.0150	-0.0550	-0.00400	0.00700	55.990	590.30000	-0.00330
1.601	7.122	-0.06560	0.1500	0.0170	-0.0500	-0.00360	0.00730	55.960	590.30000	-0.00360
1.601	9.122	0.26560	0.1500	0.0220	-0.0420	-0.0040	0.00550	56.070	590.30000	-0.00360
GRADIENT		0.0029	-0.0230	-0.0230	-0.0090	-0.0090	0.0020	-0.0013	0.00000	-0.00030

Run No.	$\Delta H / \text{cal/g}$	ΔT	Gradient Interval =	$\Delta H / \text{cal/g}$
1	2.73	-5.00		5.00

MACH.	BETA	CLWFO	CY	CYN	CBL	CYV	CYNV	XCP/L	q	CSLV
2.002	-5.415	-0.0000	0.0740	0.0150	0.0270	-0.0130	0.0670	0.5620	565.90000	-0.00270
2.002	-5.364	-0.0000	0.2870	0.0180	0.0010	-0.0170	0.0010	0.5540	565.90000	-0.00340
2.002	-1.329	-0.0400	0.0580	0.0050	0.0010	-0.0120	0.0000	0.5550	565.90000	-0.00310
2.002	-0.304	-0.0410	-0.00510	0.0010	0.0020	-0.0080	0.0030	0.5530	565.90000	-0.00290
2.002	0.712	-0.0470	-0.0170	0.0020	0.0030	-0.0070	0.0000	0.5520	565.90000	-0.00200
2.002	2.737	-0.0430	-0.0430	0.0000	0.0060	-0.0040	0.0040	0.5510	565.90000	-0.00350
2.002	4.801	-0.0560	-0.0660	0.0070	0.0090	-0.0190	0.0030	0.5530	565.90000	-0.00340
2.002	5.815	-0.0500	-0.0800	0.0050	0.0140	-0.0250	0.0070	0.5720	565.90000	-0.00400
2.002	6.844	-0.0590	-0.0970	0.0130	0.0130	-0.0470	0.0070	0.5760	565.90000	-0.00480
2.002	8.887	-0.0190	-0.1310	0.0140	0.0120	-0.0160	0.0040	0.5720	565.90000	-0.00600
GRADIENT		-0.0022	-0.0168	0.00291	0.0118	0.0191	-0.0034	0.0010	-0.0000	-0.00000

REFERENCE DATA

BREF = 2.4213 15.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1504 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AILROM = .000 BDFLAP = -11.700
 SFCBRK = 85.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 77/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
1.001	-1.494	.08150	.00590	.00090	-.00060	-.00040	-.00020	.09610	584.90000	.00030
1.001	-1.169	.07050	.00610	.00050	-.00040	.00000	-.00030	1.13200	584.90000	.00040
1.001	1.379	.05820	.00560	.00060	-.00060	.00000	-.00020	-.52760	584.90000	.00030
1.001	3.435	.04180	.00480	.00070	-.00070	-.00080	-.00010	.50340	584.90000	.00030
1.001	9.500	.02510	.00390	.00090	-.00040	-.00010	-.00030	.59060	584.90000	.00030
1.001	7.570	.01010	.00520	.00000	.00000	-.00010	-.00020	.62100	584.90000	.00030
1.001	9.637	.00120	.00490	.00070	-.00030	.00020	-.00030	.63170	584.90000	.00030
1.001	12.730	-.01160	.00600	.00040	.00010	-.00040	-.00010	.64050	584.90000	.00020
1.001	15.840	-.02480	.00590	.00050	.00010	.00050	-.00040	.64600	584.90000	.00040
1.001	18.940	-.03260	.00510	.00080	.00070	-.00090	.00000	.64720	584.90000	.00010
1.001	22.060	-.03680	.00400	.00140	.00100	.00020	.00080	.64670	584.90000	-.00020
1.001	25.170	-.03910	.00190	.00260	.00110	-.00030	.00130	.64570	584.90000	-.00060
1.001	29.090	-.02800	.00250	.00110	.00110	-.00030	.00140	.64090	584.90000	-.00070
1.001	GRADIENT	-.00804	-.00024	.00004	-.00003	-.00011	.00003	-.14716	.00000	-.00001

RUN NO. 81/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
2.002	-1.443	.05450	.00750	-.00100	.00050	.00360	-.00180	.83310	575.40000	.00110
2.002	-1.182	.04820	.00820	-.00120	.00050	.00380	-.00190	.98650	575.40000	.00130
2.002	1.351	.04040	.00940	-.00140	.00060	.00340	-.00180	-.56620	575.40000	.00130
2.002	3.414	.02970	.00790	-.00190	.00050	.00270	-.00160	.51420	575.40000	.00120
2.002	5.466	.01920	.00820	-.00070	.00070	.00300	-.00170	.59200	575.40000	.00120
2.002	7.517	.01110	.00830	-.00060	.00050	.00420	-.00200	.51650	575.40000	.00130
2.002	9.580	.00350	.00860	-.00020	.00060	.00270	-.00150	.62660	575.40000	.00110
2.002	12.670	.00000	.00800	.00010	.00060	.00260	-.00140	.63270	575.40000	.00100
2.002	15.770	-.00580	.00830	.00080	.00030	.00120	-.00080	.63540	575.40000	.00070
2.002	18.860	-.01240	.00750	.00160	.00040	-.00100	.00000	.63920	575.40000	.00010
2.002	21.990	-.01990	.00490	.00280	-.00020	-.00030	.00130	.64150	575.40000	-.00000
2.002	25.070	-.02690	.00480	.00320	-.00010	-.00040	.00170	.64290	575.40000	-.00100
2.002	28.980	-.03050	.00190	.00290	.00010	-.00040	.00190	.64260	575.40000	-.00120
2.002	GRADIENT	-.00511	.00014	-.00000	.00000	-.00020	.00005	-.14011	.00000	.00001

DATE 11 JUN

TABULATED SOURCE DATA - G-538

PAGE 89

AR 57-747 0A338 B C M F W I V NOM. RN/L

(AER039) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 SQ.FT. XMRP = 32.3010 IN.
LREF = 14.2440 IN. YMRP = .0000 IN.
BREF = 28.1004 IN. ZMRP = 11.2500 IN.
SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHA = .000 ELEVOM = .000
ATLR0M = .000 BDFLAP = -11.700
SPDRK = 85.000 RUDDER = .000
ELEV-L = .000 ELEV-R = .000

P/N NO. 78/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFLC	CY	CYN	CBL	CVV	CYV	CYNV	XCP/L	Q	CBLV
1.601	-5.197	.04200	.03270	-.00290	.03320	.03390	-.01820	-.01820	1.13500	590.90000	.01240
1.601	-3.102	.04200	.03270	-.00290	.03320	.03390	-.01820	-.01820	1.13500	590.90000	.00690
1.601	-1.038	.04200	.03270	-.00290	.03320	.03390	-.01820	-.01820	1.13500	590.90000	.00250
1.601	-1.010	.04200	.03270	-.00290	.03320	.03390	-.01820	-.01820	1.13500	590.90000	-.00010
1.601	1.018	.04200	.03270	-.00290	.03320	.03390	-.01820	-.01820	1.13500	590.90000	-.00210
1.601	3.081	.04200	.03270	-.00290	.03320	.03390	-.01820	-.01820	1.13500	590.90000	-.00680
1.601	5.147	.04200	.03270	-.00290	.03320	.03390	-.01820	-.01820	1.13500	590.90000	-.01160
1.601	6.186	.04200	.03270	-.00290	.03320	.03390	-.01820	-.01820	1.13500	590.90000	-.01430
	GRADIENT	.00011	-.00007	.00039	-.00058	-.00017	.00023	.00043	-.00000	-.00000	-.00022

RUN NO. 32/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFLC	CY	CYN	CBL	CVV	CYV	CYNV	XCP/L	Q	CBLV
2.002	-5.544	.04200	.03270	-.00290	.03320	.03390	-.01820	-.01820	1.13500	590.90000	.01240
2.002	-3.471	.04200	.03270	-.00290	.03320	.03390	-.01820	-.01820	1.13500	590.90000	.00790
2.002	-1.414	.04200	.03270	-.00290	.03320	.03390	-.01820	-.01820	1.13500	590.90000	.00340
2.002	-1.386	.04200	.03270	-.00290	.03320	.03390	-.01820	-.01820	1.13500	590.90000	-.00090
2.002	.656	.04200	.03270	-.00290	.03320	.03390	-.01820	-.01820	1.13500	590.90000	-.00180
2.002	2.722	.04200	.03270	-.00290	.03320	.03390	-.01820	-.01820	1.13500	590.90000	-.00660
2.002	4.772	.04200	.03270	-.00290	.03320	.03390	-.01820	-.01820	1.13500	590.90000	-.01160
2.002	5.811	.04200	.03270	-.00290	.03320	.03390	-.01820	-.01820	1.13500	590.90000	-.01420
	GRADIENT	-.00011	-.01800	.00043	-.00082	-.00064	.00049	.00095	-.00000	-.00000	-.00038

(AEK040) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 96.FT. YMRP = 32.3510 IM.
 LBREF = 14.2440 IM. YMRP = .0000 IM.
 BREF = 28.1000 IM. ZMRP = 11.2500 IM.
 SCALE = .0305 SCALE

ALPHA = 15.000 ELEVOM = .000
 AIRLROM = .000 BDFLAP = -11.700
 SPDRK = 85.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 79/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CV	CYN	YCP/L	Q	CBLV
1.001	-5.043	-.00340	.00270	.00070	.00890	.02980	-.01450	.63560	589.10000	.00990
1.001	-3.016	-.00030	.00000	.00070	.00000	.01000	-.00080	.63300	589.10000	.00800
1.001	-.987	-.00100	.02010	.00070	.00000	.00000	-.00000	.63300	589.10000	.00210
1.001	.033	-.00140	.00490	.00000	-.00000	-.00000	-.00000	.63300	589.10000	.00000
1.001	1.751	-.00100	-.01000	.00000	-.00100	-.00000	.00000	.63400	589.10000	-.00100
1.001	3.075	-.00070	-.04140	-.00000	-.00000	-.01790	.00750	.63300	589.10000	-.00000
1.001	5.110	-.00000	-.07250	-.00100	-.00000	-.02940	.00370	.63300	589.10000	-.00000
1.001	6.126	-.00000	-.08900	-.00270	-.00000	-.03460	.01600	.63300	589.10000	-.00100
1.001	7.154	-.00000	-.10670	-.00290	-.01000	-.04320	.00010	.63310	589.10000	-.01340
1.001	9.169	-.00460	-.14290	-.00000	-.01310	-.05510	.00610	.63600	589.10000	-.01700
	GRADIENT	-.00000	-.01510	-.00000	-.00100	-.00000	.00000	.00000	-.00000	-.00100

RUN NO. 83/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CV	CYN	YCP/L	Q	CBLV
2.002	-5.482	.00380	.08390	.00430	.00490	.02980	-.01460	.62880	579.90000	.01000
2.002	-3.383	.00470	.05240	.00310	.00270	.01980	-.00000	.62780	579.90000	.00840
2.002	-1.361	.00420	.01990	.00210	.00000	.00000	-.00000	.62830	579.90000	.00000
2.002	-.342	.00420	.00420	.00120	-.00000	.00000	-.00000	.62870	579.90000	.00000
2.002	.670	.00380	-.01070	.00000	-.00110	-.00000	.00000	.62870	579.90000	-.00140
2.002	2.710	.00450	-.04400	.00000	-.00340	-.01730	.00800	.62800	579.90000	-.00000
2.002	4.727	.00430	-.07830	.00000	-.00000	-.02980	.01400	.62800	579.90000	-.00000
2.002	5.745	.00420	-.09360	.00000	-.00000	-.03340	.01600	.62810	579.90000	-.01120
2.002	6.761	.00170	-.11230	.00040	-.00000	-.04190	.01000	.63100	579.90000	-.01320
2.002	8.000	-.00260	-.14320	-.00140	-.01270	-.04780	.00340	.63340	579.90000	-.01590
	GRADIENT	-.00000	-.01582	-.00040	-.00100	-.00000	.00000	.00000	-.00000	-.00192



APC 97-747 QAS3B B C M F W1 V MON. RM/L

(AEK041) (12 MAR 74)

REFERENCE DATA

REF = 2.4216 SG.FT. XRRP = 32.3210 IN. ALPHA = 20.000 ELEVOM = .000
 LREF = 14.2440 IN. YRRP = .0000 IN. AIRLON = .000 BOFLAP = -11.700
 RREF = 20.1004 IN. ZRRP = 11.2500 IN. SPDBRK = 85.000 RUDDER = .000
 SCALE = .0300 SCALE ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 80/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFD	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
1.001	-3.049	-.03700	.07340	.01470	.00340	-.00650	-.00030	.64780	591.80000	.00160
1.001	-3.503	-.03500	.04450	.00970	.00320	-.00530	.00010	.64740	591.80000	.00000
1.001	-3.958	-.03480	.01850	.00400	.00150	-.00150	-.00030	.64700	591.80000	.00050
1.001	-3.970	-.03350	.00460	.00150	.00050	-.00160	.00030	.64710	591.80000	.00000
1.001	1.101	-.03350	-.00860	-.00370	-.00040	-.00210	.00110	.64720	591.80000	-.00060
1.001	3.140	-.03350	-.03320	-.00660	-.00250	-.00040	.00160	.64730	591.80000	-.00140
1.001	5.170	-.03310	-.06170	-.01410	-.00430	-.00530	.00040	.64740	591.80000	-.00140
1.001	6.207	-.03730	-.07410	-.01720	-.00610	.00590	.00040	.64790	591.80000	-.00150
1.001	7.222	-.03960	-.09010	-.02330	-.00730	.00590	.00060	.64880	591.80000	-.00170
1.001	9.289	-.04530	-.12830	-.02400	-.01050	.00080	.00320	.65160	591.80000	-.00330
GRADIENT		-.00002	-.01299	-.00262	-.00093	.00069	.00029	-.00000	-.00000	-.00039

RUN NO. 84/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFD	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
2.002	-3.410	-.02210	.06610	.01420	.00310	-.01410	.00350	.64320	579.90000	-.00060
2.002	-3.363	-.01800	.03960	.01180	.00280	-.01040	.00290	.64130	579.90000	-.00080
2.002	-1.323	-.01510	.01550	.00480	.00100	-.00460	.00130	.64040	579.90000	-.00040
2.002	-3.306	-.01580	.00590	.00110	-.00010	-.00220	.00060	.64030	579.90000	-.00030
2.002	.729	-.01620	-.00860	-.00200	-.00010	-.00050	.00030	.64050	579.90000	-.00040
2.002	2.750	-.01920	-.03080	-.00840	-.00370	.00460	-.00100	.64190	579.90000	-.00020
2.002	4.806	-.02270	-.05710	-.01260	-.00680	.00580	-.00080	.64360	579.90000	-.00080
2.002	5.831	-.02690	-.07260	-.01450	-.00890	.00590	-.00010	.64550	579.90000	-.00140
2.002	6.844	-.03150	-.09010	-.01560	-.01000	.00280	.00140	.64770	579.90000	-.00240
2.002	6.892	-.03510	-.12940	-.01630	-.01600	-.00750	.00630	.64990	579.90000	-.00540
GRADIENT		-.00065	-.01165	-.00304	-.00118	.00213	-.00047	.00032	-.00000	.00001

ARC 97-747 QAS38 B C M F W1 V MOM. RM/L

(AER042) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 39. FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1504 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = 10.000
 AILROM = 5.000 BDFLAP = -11.700
 SPDBRK = 55.000 RUCCER = .000
 ELEV-L = 15.000 ELEV-R = 5.000

RUN NO. 85/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
1.601	-1.482	.00500	.00680	-.00110	.00780	.00250	-.00110	.68050	598.10000	.00070
1.601	-1.188	-.00460	.00620	-.00110	.00780	.00190	-.00120	.71160	598.10000	.00070
1.601	1.363	-.01550	.00560	-.00110	.00720	.00190	-.00080	.69470	598.10000	.00060
1.601	3.418	-.02950	.00620	-.00100	.00680	.00080	-.00050	.69090	598.10000	.00040
1.601	5.495	-.04550	.00720	-.00140	.00670	.00070	-.00040	.69060	598.10000	.00040
1.601	7.562	-.05850	.00820	-.00190	.00750	-.00170	.00030	.68890	598.10000	.00000
1.601	9.616	-.06980	.00760	-.00230	.00810	.00110	-.00060	.68670	598.10000	.00040
1.601	12.740	-.08270	.00750	-.00260	.00910	.00000	-.00020	.68220	598.10000	.00020
1.601	15.850	-.09820	.00960	-.00310	.00970	-.00050	.00010	.67990	598.10000	.00010
1.601	18.960	-.10760	.00980	-.00340	.01030	-.00110	.00020	.67630	598.10000	-.00010
1.601	22.080	-.11350	.00820	-.00350	.01040	-.00360	.00120	.67230	598.10000	-.00060
1.601	25.210	-.11690	.00600	-.00250	.01120	-.00370	.00150	.66860	598.10000	-.00080
1.601	29.080	-.11260	.00470	-.00320	.01160	-.00180	.00120	.66320	598.10000	-.00080
GRADIENT		-.00710	-.00013	.00062	-.00022	-.00032	.00012	.00043	.00000	-.00006

RUN NO. 86/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
2.002	-1.492	-.00530	.00440	.00000	.00550	.00360	-.00150	.59000	586.00000	.00090
2.002	-.208	-.01080	.00400	-.00010	.00540	.00300	-.00130	2.37100	586.00000	.00080
2.002	1.335	-.01800	.00480	-.00030	.00530	.00220	-.00100	.73690	586.00000	.00070
2.002	3.397	-.02970	.00440	-.00030	.00490	.00130	-.00080	.70620	586.00000	.00060
2.002	5.449	-.03750	.00470	-.00050	.00500	.00160	-.00080	.69180	586.00000	.00060
2.002	7.521	-.04550	.00560	-.00080	.00500	.00210	-.00090	.68800	586.00000	.00060
2.002	9.565	-.05120	.00650	-.00110	.00550	.00160	-.00070	.68240	586.00000	.00050
2.002	12.650	-.05720	.00660	-.00160	.00590	.00080	-.00040	.67450	586.00000	.00030
2.002	15.770	-.06420	.00710	-.00220	.00630	.00020	-.00010	.67000	586.00000	.00020
2.002	18.870	-.07240	.00720	-.00230	.00740	-.00140	.00050	.66760	586.00000	-.00020
2.002	21.970	-.08110	.00590	-.00270	.00770	-.00210	.00080	.66590	586.00000	-.00050
2.002	25.100	-.09080	.00690	-.00310	.00670	-.00170	.00090	.66490	586.00000	-.00060
2.002	28.960	-.10260	.00420	-.00320	.01080	-.00100	.00080	.66390	586.00000	-.00060
GRADIENT		-.00500	.00003	-.00007	-.00012	-.00047	.00015	-.00000	.00000	-.00006

DATE 16 JUL

TABLE 9 SOURCE DATA - 04538

PAGE 93

AFC 97-747 04538 B C M F W V NOM. RM/L

(AER043) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 30-FT. TMRP = 32.3510 IN.
 LREF = 14.2445 IN. TMRP = .0000 IN.
 BREF = 20.1954 IN. TMRP = 11.2300 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AIRLON = 15.000 BDFLAP = -11.700
 SPDARK = 55.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = -15.000

RUN NO. 88/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFC	CY	CYN	CBL	CYV	CYNV	KCP/L	Q	CBLV
1.601	-1.465	.04480	.00910	.00430	.02850	.00120	-.00030	.81750	592.70000	.00040
1.601	-1.193	.03480	.00080	.00370	.02220	.00080	-.00030	1.07700	592.70000	.00040
1.601	1.334	.02470	.00130	.00330	.02170	.00050	-.00030	.40670	592.70000	.00040
1.601	5.429	.00870	.00280	.00220	.02120	-.00010	-.00010	.60990	592.70000	.00020
1.601	5.489	-.01685	.00320	.00120	.02150	-.00140	.00030	.64330	592.70000	.00000
1.601	7.562	-.02150	.00480	.00030	.02130	.00000	.00000	.65610	592.70000	.00020
1.601	9.618	-.03260	.00520	-.00040	.02070	-.00080	.00020	.66070	592.70000	.00000
1.601	12.730	-.04850	.00670	-.00150	.02140	-.00210	.00070	.66390	592.70000	-.00010
1.601	15.840	-.06180	.00890	-.00400	.02220	-.00170	.00060	.66440	592.70000	-.00020
1.601	18.950	-.07040	.01010	-.00400	.02300	-.00170	.00060	.66280	592.70000	-.00020
1.601	22.560	-.07470	.01020	-.00430	.02350	-.00380	.00140	.66520	592.70000	-.00070
1.601	25.180	-.07870	.01140	-.00500	.02390	-.00390	.00160	.65800	592.70000	-.00090
1.601	29.110	-.06930	.00880	-.00540	.02380	-.00280	.00140	.65230	592.70000	-.00090
GRADIENT			.00054	-.00042	-.00027	-.00026	.00009	-.07785	-.00000	-.00004

RUN NO. 89/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFC	CY	CYN	CBL	CYV	CYNV	KCP/L	Q	CBLV
2.002	-1.495	.02300	.00820	-.00020	.01690	.00380	-.00160	.73340	584.50000	.00180
2.002	-.801	.01690	.01010	-.00080	.01680	.00330	-.00170	.81370	584.50000	.00120
2.002	1.341	.00980	.01110	-.00130	.01670	.00300	-.00160	.49330	584.50000	.00130
2.002	3.397	-.00030	.01040	-.00180	.01630	.00370	-.00180	.63360	584.50000	.00130
2.002	5.448	-.01000	.01030	-.00230	.01620	.00340	-.00170	.63260	584.50000	.00120
2.002	7.500	-.01890	.01290	-.00300	.01640	.00250	-.00130	.65880	584.50000	.00110
2.002	9.562	-.02520	.01260	-.00360	.01660	.00200	-.00120	.65940	584.50000	.00100
2.002	12.660	-.03110	.01390	-.00430	.01720	.00190	-.00110	.65710	584.50000	.00090
2.002	15.800	-.03790	.01390	-.00500	.01810	.00080	-.00060	.65590	584.50000	.00060
2.002	18.860	-.04580	.01380	-.00500	.01900	-.00040	-.00010	.65570	584.50000	.00030
2.002	21.950	-.05360	.01310	-.00560	.01980	-.00020	.00070	.65570	584.50000	-.00020
2.002	25.060	-.06240	.01230	-.00550	.02090	-.00020	.00110	.65570	584.50000	-.00030
2.002	28.990	-.07030	.00990	-.00590	.02330	-.00280	.00130	.65480	584.50000	-.00070
GRADIENT			.00043	-.00032	-.00012	.00008	-.00003	-.03607	-.00000	.00002

REFERENCE DATA

REF = 2.4210 SQ.FT. YMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 26.1304 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = -10.000
 AILPOM = 15.000 BDFLAP = -11.700
 SPDBRK = 55.000 RUCLER = .000
 ELEV-L = 5.000 ELEV-R = -25.000

RUN NO. 91/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
1.000	-1.489	.07970	-.00920	.01820	.02050	.00210	-.00110	.83550	600.20000	.00070
1.000	-1.194	.06950	-.00900	.01170	.02020	.00090	-.00070	.93900	600.20000	.00060
1.000	1.365	.05660	-.00740	.01060	.02010	.00070	-.00060	4.12500	600.20000	.00050
1.000	3.428	.04150	-.00690	.00980	.01970	.00100	-.00070	.47030	600.20000	.00050
1.000	5.488	.02650	-.00550	.00650	.01950	.00070	-.00010	.56140	600.20000	.00020
1.000	7.526	.01400	-.00450	.00780	.01910	-.00070	-.00010	.61460	600.20000	.00020
1.000	9.608	.00180	-.00250	.00700	.01860	-.00060	-.00020	.63090	600.20000	.00030
1.000	12.710	-.01110	.00030	.00510	.01750	.00060	-.00050	.64060	600.20000	.00040
1.000	15.830	-.02540	.00670	.00190	.01700	.00040	-.00010	.64680	600.20000	.00020
1.000	18.950	-.03210	.00670	.00170	.01690	-.00090	.00010	.64730	600.20000	.00010
1.000	22.090	-.03650	.00640	.00150	.01930	-.00240	.00070	.64680	600.20000	-.00030
1.000	25.180	-.02950	.00830	.00100	.01940	-.00440	.00160	.64660	600.20000	-.00060
1.000	29.110	-.02950	.01130	-.00130	.02000	-.00230	.00070	.64140	600.20000	-.00030
1.000	GRADIENT	-.00786	.00032	-.00030	-.00015	-.00019	.00007	.06353	-.50000	-.00004

RUN NO. 90/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
2.002	-1.459	.04780	.00010	.00770	.01560	.00260	-.00130	.73170	565.80000	.00090
2.002	-1.198	.04150	.00030	.00680	.01510	.00320	-.00150	.83250	565.80000	.00150
2.002	1.357	.03410	.00030	.00640	.01490	.00240	-.00120	2.66400	565.80000	.00080
2.002	3.380	.02840	.00010	.00370	.01430	.00170	-.00090	.51180	565.80000	.00070
2.002	5.450	.01410	.00060	.00510	.01400	.00230	-.00110	.59930	565.80000	.00070
2.002	7.498	.00620	.00200	.00420	.01360	.00270	-.00110	.62300	565.80000	.00070
2.002	9.556	.00050	.00330	.00340	.01350	.00170	-.00060	.63210	565.80000	.00060
2.002	12.640	-.00390	.00700	.00190	.01340	.00170	-.00070	.63510	565.80000	.00050
2.002	15.730	-.00810	.00740	.00130	.01370	.00050	-.00020	.63810	565.80000	.00020
2.002	18.810	-.01440	.00740	.00090	.01420	-.00080	.00020	.64040	565.80000	.00000
2.002	21.950	-.02080	.00730	.00050	.01460	-.00260	.00090	.64210	565.80000	-.00040
2.002	25.060	-.02800	.00790	.00010	.01490	-.00250	.00100	.64150	565.80000	-.00060
2.002	28.940	-.03190	.00940	-.00190	.01590	-.00170	.00070	.64330	565.80000	-.00040
2.002	GRADIENT	-.00481	-.00001	-.00039	-.00025	-.00027	.00010	.02542	.00000	-.00005

DATE 16 JUL 74

*ABSUTATED SOURCE DATA - 0433B

PAGE 95

*C 97-747 0433B B C F W1 V MOM. RM/L

(AER045) (12 MAR 74)

REFERENCE DATA

SREF = 2.4819 50-FT.
 LREF = 14.2440 IN.
 BREF = 26.1004 IN.
 SCALE = .0000 SCALE

XMRP = 32.3010 IN.
 YMRP = .0000 IN.
 ZMRP = 11.2500 IN.

BETA = .000 ELEVOM = -20.000
 AIRLON = 5.000 BDFLAP = -11.700
 SPOBRK = 55.000 RUDDER = .000
 ELEV-L = -15.000 ELEV-R = -25.500

PARAMETRIC DATA

RUN NO. 95/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWC	CY	CYN	CBL	CVY	CYNV	XCP/L	Q	CBLV
1.800	-1.476	.11830	-.00270	.00660	.00510	.00130	-.00080	.84880	598.40000	.00050
1.800	-1.198	.10830	-.00270	.00670	.00490	.00080	-.00060	.91810	598.40000	.00040
1.800	1.327	.09630	-.00230	.00640	.00440	.00070	-.00050	1.17300	598.40000	.00040
1.800	3.403	.08530	-.00320	.00630	.00450	-.00020	-.00020	-1.19540	598.40000	.00030
1.800	5.480	.06900	-.00330	.00580	.00430	-.00040	-.00020	.45840	598.40000	.00020
1.800	7.572	.05200	-.00370	.00550	.00430	.00080	-.00050	.55050	598.40000	.00040
1.800	9.642	.03940	-.00360	.00530	.00440	.00020	-.00030	.58840	598.40000	.00030
1.800	12.720	.02470	.00070	.00440	.00430	.00080	-.00050	.61330	598.40000	.00040
1.800	15.830	.01340	.00640	.00160	.00380	.00180	-.00090	.62470	598.40000	.00050
1.800	18.920	.00810	.00370	.00220	.00430	-.00140	.00020	.62880	598.40000	.00050
1.800	22.150	.00350	.00420	.00320	.00480	-.00170	.00040	.63130	598.40000	-.00010
1.800	25.160	.00190	.00500	.00280	.00440	-.00350	.00120	.63200	598.40000	-.00060
1.800	29.100	.01470	.00730	.00070	.00450	-.00280	.00080	.62820	598.40000	-.00050
GRADIENT		-.00775	-.00006	-.00006	-.00013	-.00029	.00012	-.11990	.00000	-.00004

RUN NO. 92/ 0 RM/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWC	CY	CYN	CBL	CVY	CYNV	XCP/L	Q	CBLV
2.002	-1.476	.07710	-.00280	.00320	.00480	.00130	-.00050	.81060	565.40000	.0030
2.002	-1.209	.06980	-.00290	.00320	.00430	.00140	-.00060	.87400	565.40000	.00030
2.002	1.356	.06310	-.00360	.00320	.00430	.00050	-.00030	1.14700	565.40000	.00030
2.002	3.368	.05240	-.00360	.00480	.00380	.00070	-.00030	.09760	565.40000	.00020
2.002	5.464	.04170	-.00430	.00450	.00360	-.00020	.00010	.50350	565.40000	.00050
2.002	7.520	.03310	-.00490	.00420	.00340	.00090	-.00020	.57170	565.40000	.00020
2.002	9.322	.02760	-.00230	.00370	.00320	.00060	-.00020	.59590	565.40000	.00050
2.002	12.830	.02360	-.00020	.00290	.00310	.00080	-.00020	.61590	565.40000	.00050
2.002	15.750	.01900	.00080	.00260	.00310	-.00060	.00030	.61940	565.40000	-.00050
2.002	18.840	.01490	.00040	.00240	.00290	-.00110	.00030	.62480	565.40000	-.00050
2.002	21.950	.00930	.00060	.00260	.00320	-.00170	.00070	.62830	565.40000	-.00050
2.002	25.010	.00370	.00050	.00170	.00260	-.00080	.00050	.63120	565.40000	-.00050
2.002	28.950	.00290	.00120	.00010	.00250	.00060	.00000	.63170	565.40000	-.00050
GRADIENT		-.00502	-.00019	-.00008	-.00017	-.00016	.00006	-.11325	.00000	-.00002

ARC 97-72: Q4338 B C M F W1 V MON. RM/L

(AEK048) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 SQ.FT.
 LREF = 14.2440 IN.
 BREF = 20.1204 IN.
 SCALE = .0500 SCALE

XMRP = 32.3010 IN.
 YMRP = .0000 IN.
 ZMRP = 11.2300 IN.

PARAMETRIC DATA

ALPHA = .000 ELEVOM = .000
 AILROM = .000 BDCLAP = -11.700
 SPCBKA = 65.000 RUOCER = -10.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 94/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
1.001	-5.159	.06340	.06720	-.00090	.00130	.03400	-.01340	1.12800	583.70000	.01560
1.001	-3.103	.06760	.05120	.00170	.00000	.01580	-.00730	1.13500	583.70000	.00320
1.001	-1.042	.06850	.01660	.00300	-.00170	.00220	-.00090	1.14500	583.70000	.00090
1.001	-.012	.06790	.00010	.00380	-.00230	-.00530	.00240	1.17200	583.70000	-.00140
1.001	1.012	.06850	-.01710	.00430	-.00280	-.01280	.00260	1.15500	583.70000	-.00370
1.001	3.079	.06850	-.03370	.00330	-.00440	-.02810	.01260	1.15800	583.70000	-.00850
1.001	5.143	.06720	-.09050	.00360	-.00550	-.04560	.02030	1.15000	583.70000	-.01340
	GRADIENT	.05510	-.01691	.00059	-.00089	-.00712	.00322	.00384	-.00000	-.00222

RUN NO. 99/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
2.002	-5.549	.04080	.09620	.00030	.00220	.03530	-.01600	.96200	583.70000	.01100
2.003	-3.478	.04370	.05830	.00200	.00030	.02020	-.00870	.97700	583.70000	.00620
2.002	-1.718	.04780	.02270	.00330	-.00110	.00530	-.00190	.99750	583.70000	.00150
2.003	-.391	.04750	.00360	.00420	-.00220	-.00340	.00200	1.00100	583.70000	-.00110
2.003	.640	.04730	-.01530	.00310	-.00300	-.01250	.00590	.99080	583.70000	-.00360
2.003	2.700	.04750	-.03380	.00670	-.00470	-.02710	.01270	1.01200	583.70000	-.00840
2.002	4.766	.04420	-.09320	.00850	-.00660	-.04260	.01990	1.01000	583.70000	-.01320
	GRADIENT	-.05516	-.01863	.00080	-.00086	-.00767	.00348	.00376	-.00000	-.00236

DATE 10 JUL 77

UNCLASSIFIED SOURCE DATA - 04338

PAGE 97

-RC 97-747 04338 B C M F W I V DOM. RM/L

(AEK047) (12 MAR 74)

REFERENCE DATA

SREF = 2.4215 30-FT. INREP = 32.3010 IN.
 LRCP = 14.2440 IN. YMRP = .0000 IN.
 BRCP = 28.1054 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 ELEVOM = .000
 AIRLOM = .000 BOFLAP = -11.700
 SPOBRK = 65.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 95/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CVV	CYNV	XCP/L	Q	CBLV
1.001	-5.541	-.00415	.07670	.00410	.00390	.02340	-.01110	.63620	590.90000	.00780
1.001	-3.515	-.00200	.04550	.00410	.00140	.01280	-.00590	.63440	590.90000	.00420
1.001	-.986	-.00280	.01450	.00380	-.00110	.00050	-.00010	.63500	590.90000	.00040
1.001	.025	-.00250	-.00040	.00370	-.00190	-.00370	.00270	.63320	590.90000	-.00150
1.001	1.044	-.00190	-.01780	.00380	-.00210	-.01160	.00550	.63430	590.90000	-.00330
1.001	3.073	-.00130	-.04710	.00290	-.00350	-.02350	.01090	.63430	590.90000	-.00700
1.001	5.091	-.00270	-.07750	.00130	-.00810	-.03440	.01630	.63500	590.90000	-.01000
1.001	7.137	-.00220	-.11110	-.0000	-.01140	-.04610	.02200	.63450	590.90000	-.01460
1.001	9.170	-.00350	-.14460	-.00150	-.01410	-.05950	.02820	.63370	590.90000	-.01860
GRADIENT		.00005	-.01528	-.00018	-.00100	-.00589	.00276	-.00005	-.00000	-.00184

RUN NO. 96/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CVV	CYNV	XCP/L	Q	CBLV
2.003	-5.417	.00270	.08040	.00510	.00440	.02400	-.01140	.62990	583.30000	.00810
2.003	-3.377	.00430	.04910	.00390	.00230	.01430	-.00660	.62830	583.30000	.00470
2.002	-1.359	.00430	.01830	.00340	.00010	.00210	-.00070	.62820	583.30000	.00080
2.003	-.346	.00420	.00310	.00300	-.00100	-.00360	.00200	.62860	583.30000	-.00100
2.003	.668	.00430	-.01180	.00300	-.00190	-.00920	.00470	.62820	583.30000	-.00280
2.003	2.691	.00190	-.04460	.00330	-.00490	-.02270	.01100	.62700	583.30000	-.00690
2.003	4.724	.00320	-.07950	.00410	-.00810	-.03320	.01630	.62740	583.30000	-.01070
2.003	6.757	.00340	-.11670	.00380	-.01160	-.04630	.02230	.62910	583.30000	-.01460
2.003	8.795	-.00080	-.15180	.00200	-.01440	-.05250	.02590	.63300	583.30000	-.01730
GRADIENT		.00016	-.01582	.00003	-.00128	-.00592	.00284	-.00016	.00000	-.00190

ARC 97-747 Q4338 B C M F W1 V MOM. RN/L

(AEK048) (12 MAR 74)

REFERENCE DATA

REF = 2.4210 88-FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. XMRP = .0000 IN.
 REF = 28.1004 IN. XMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 ELEV-M = .000
 AILROM = .000 BDFLAP = -11.700
 SFCBKK = 83.000 RUDECK = -10.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 96/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFLD	CY	CYN	CBL	CYV	CYNV	XCP/L	q	CBLV
1.801	-5.046	-.03670	.06810	.01720	.00410	-.01310	.00290	.64760	592.70000	-.00030
1.801	-3.501	-.03430	.03900	.01280	.00170	-.01140	.00330	.64670	592.70000	-.00100
1.801	-.954	-.03440	.01270	.00730	.00000	-.00900	.00330	.64680	592.70000	-.00160
1.801	.063	-.03380	-.00320	.00550	-.00100	-.00860	.00350	.64730	592.70000	-.00210
1.801	1.091	-.03640	-.01690	.00300	-.00230	-.00950	.00490	.64760	592.70000	-.00280
1.801	3.131	-.03730	-.04130	-.00280	-.00440	-.00780	.00540	.64790	592.70000	-.00360
1.801	5.177	-.03690	-.06730	-.01080	-.00650	-.00190	.00400	.64770	592.70000	-.00330
1.801	7.225	-.03990	-.09530	-.01790	-.00850	.00260	.00250	.64890	592.70000	-.00280
1.801	9.282	-.04520	-.13080	-.02300	-.01100	-.00310	.00470	.65110	592.70000	-.00410
	GRADIENT	-.00054	-.01323	-.00250	-.00101	.00050	.00039	.00022	-.00000	-.00044

RUN NO. 97/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFLD	CY	CYN	CBL	CYV	CYNV	XCP/L	q	CBLV
2.002	-5.413	-.02090	.06040	.01860	.00490	-.01570	.00490	.64270	583.70000	-.01190
2.002	-3.365	-.01690	.03270	.01330	.00230	-.01500	.00560	.64080	583.70000	-.0220
2.002	-1.322	-.01310	.01070	.00680	.00060	-.00940	.00410	.63990	583.70000	-.00020
2.002	-.307	-.01720	-.00110	.00380	-.00070	-.00690	.00360	.64090	583.70000	-.00190
2.002	.714	-.01800	-.01270	.00090	-.00020	-.00080	.00350	.64130	583.70000	-.00210
2.003	2.756	-.02070	-.03500	-.00560	-.00430	.00000	.00180	.64260	583.70000	-.00170
2.002	4.800	-.02400	-.05880	-.01030	-.00770	.00400	.00130	.64410	583.70000	-.00170
2.003	6.840	-.03060	-.09070	-.01370	-.01190	.00100	.00240	.64720	583.70000	-.00290
2.003	8.880	-.03320	-.12960	-.01930	-.01720	-.00790	.00660	.64840	583.70000	-.00370
	GRADIENT	-.00099	-.01120	-.00292	-.00123	.00231	-.00056	.00046	.00000	-.00006

REFERENCE DATA

BREF = 2.4210 86.FT. YMRP = 32.3010 IN.

LREF = 14.2445 IN. YMRP = .0000 IN.

BREF = 28.1504 IN. ZMRP = 11.2500 IN.

SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000

AILROM = .000 BOFLAP = 16.300

SPDRK = 95.000 RUDDER = .000

ELEV-L = 15.000 ELEV-R = 15.000

RUN NO. 100/ C RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00									
MACH	ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	CBLV
1.001	-1.466	-.04310	.00310	.00070	.00010	.00200	-.00090	1.56800	.00060
1.001	-.197	-.05290	.00660	.00060	.00020	.00070	-.00060	.89460	.00060
1.001	1.351	-.06640	.00750	.00060	.00020	-.00090	-.00010	.79670	.00030
1.001	3.413	-.08340	.00710	.00030	.00020	.00150	-.00080	.75630	.00060
1.001	5.479	-.10070	.00750	.00010	.00050	.00020	-.00030	.73930	.00040
1.001	7.544	-.11780	.00740	.00000	.00070	.00060	-.00040	.72960	.00040
1.001	9.616	-.13150	.00780	-.00020	.00070	.00040	-.00040	.72200	.00040
1.001	12.720	-.14970	.00820	-.00030	.00110	.00070	-.00050	.71300	.00050
1.001	15.920	-.16840	.00840	-.00040	.00170	-.00010	-.00020	.70650	.00040
1.001	18.930	-.18230	.00830	.00000	.00180	.00070	-.00040	.70050	.00040
1.001	22.050	-.19260	.00780	.00030	.00180	-.00130	.00030	.69510	.00030
1.001	25.170	-.20310	.00770	.00030	.00110	-.00190	.00070	.69060	-.00030
1.001	29.090	-.21950	.00530	-.00010	.00170	-.00160	.00070	.68290	-.00040
GRADIENT		-.00831	.00039	-.00008	.00002	-.00013	.00003	-.14560	-.00001

RUN NO. 101/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00									
MACH	ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	CBLV
2.002	-1.470	-.04050	.00670	-.00090	.00080	.00470	-.00200	-1.59500	.00130
2.002	-.213	-.04720	.00810	-.00090	.00030	.00300	-.00160	1.04800	.00110
2.002	1.338	-.05570	.00890	-.00100	.00060	.00360	-.00100	.82590	.00120
2.002	3.389	-.06750	.00910	-.00100	.00070	.00260	-.00140	.76530	.00110
2.002	5.445	-.07930	.00990	-.00110	.00100	.00290	-.00150	.74230	.00100
2.002	7.498	-.08930	.00930	-.00120	.00110	.00380	-.00170	.72720	.00120
2.002	9.553	-.09710	.00910	-.00130	.00120	.00350	-.00140	.71610	.00100
2.002	12.650	-.10700	.01540	-.00140	.00190	.00250	-.00130	.70360	.00100
2.002	15.750	-.11880	.01030	-.00110	.00230	.00160	-.00090	.69610	.00070
2.002	18.850	-.13220	.00910	-.00040	.00190	-.00080	.00000	.69140	.00030
2.002	21.950	-.14610	.00740	.00020	.00160	-.00260	.00070	.68840	-.00020
2.002	26.030	-.16370	.00590	.00060	.00150	-.00220	.00090	.68680	-.00040
2.002	28.970	-.18300	.00360	.00090	.00170	-.00390	.00160	.68460	-.00090
GRADIENT		-.00556	.00047	-.00002	-.00004	-.00034	.00010	.38178	-.00003

ARC 97-747 04338 B C H W I V NOM. RN/L SEAL-EL

(AEROS) (12 MAR 74)

REFERENCE DATA

REF = 2.4210 SQ.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2300 IN.
 SCALE = .0300 SCALE

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = 16.300
 SPDRK = 55.000 RUCCER = .000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 102/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWD	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
1.000	-1.471	.02510	.00200	.00180	-.00080	-.00100	.00020	.75470	585.00000	.00010
1.000	-1.198	.01390	.00150	.00200	-.00120	.00080	-.00040	1.16200	585.00000	.00030
1.000	1.370	.00020	.00130	.00220	-.00080	-.00030	.00010	.63160	585.00000	.00000
1.000	3.421	-.01710	.00160	.00190	-.00110	-.00150	.00040	.67080	585.00000	.00050
1.000	5.463	-.03420	.00210	.00200	-.00090	-.00060	-.00020	.68030	585.00000	.00020
1.000	7.325	-.04750	.00210	.00170	-.00040	-.00020	.00060	.68200	585.00000	-.00020
1.000	9.397	-.05970	.00220	.00170	-.00040	-.00080	.00010	.68140	585.00000	.00000
1.000	12.730	-.07370	.00300	.00130	-.00080	-.00020	.00010	.67880	585.00000	.00000
1.000	15.810	-.08860	.00260	.00160	-.00060	-.00020	.00010	.67700	585.00000	.00000
1.000	18.930	-.09980	.00190	.00190	-.00030	-.00180	.00070	.67430	585.00000	-.00030
1.000	22.040	-.10790	.00110	.00240	-.00040	-.00210	.00090	.67150	585.00000	-.00060
1.000	25.150	-.11280	.00140	.00210	-.00060	-.00210	.00180	.66830	585.00000	-.00100
1.000	29.050	-.10090	.00160	.00090	-.00020	.00030	.00030	.66090	585.00000	-.00040
GRADIENT		-.00863	-.00007	.00002	-.00003	-.00025	.00009	-.05338	-.00000	-.00004

RUN NO. 103/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWD	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
2.002	-1.472	.00650	.01000	.00020	.00030	.00400	-.00180	.66840	578.40000	.00130
2.002	-1.227	.00010	.00880	.00050	.00010	.00420	-.00200	.63460	578.40000	.00140
2.002	1.354	-.00890	.00930	.00060	.00010	.00440	-.00200	.70400	578.40000	.00140
2.002	3.576	-.01980	.00670	.00080	.00000	.00400	-.00180	.69050	578.40000	.00120
2.002	5.469	-.03070	.00630	.00100	-.00010	.00330	-.00160	.68750	578.40000	.00110
2.002	7.500	-.04010	.00810	.00120	.00000	.00360	-.00160	.68390	578.40000	.00110
2.002	9.346	-.04670	.00810	.00130	.00000	.00360	-.00130	.67940	578.40000	.00090
2.002	12.650	-.05330	.00860	.00140	.00000	.00140	-.00080	.67310	578.40000	.00060
2.002	15.770	-.06110	.00820	.00170	-.00030	.00050	.00000	.66890	578.40000	.00020
2.002	18.840	-.06820	.00770	.00210	.00010	-.00200	.00000	.66620	578.40000	-.00010
2.002	19.860	-.07160	.00730	.00230	.00010	-.00270	.00080	.66590	578.40000	-.00030
2.002	21.960	-.07780	.00600	.00240	-.00020	-.00360	.00120	.66510	578.40000	-.00060
2.002	25.080	-.08810	.00500	.00250	-.00010	-.00370	.00150	.66450	578.40000	-.00080
2.002	28.970	-.09880	.00440	.00160	.00020	-.00330	.00150	.66330	578.40000	-.00080
GRADIENT		-.00543	-.00020	.00011	-.00005	.00000	.00001	.00850	.00000	-.00002

ARC 97-747 04338 B C M F W I V MON. RN/L (08K001) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3010 IN.
LREF = 14.2440 IN. YMRP = .0000 IN.
BREF = 28.1004 IN. ZMRP = 11.2500 IN.
SCALE = .0300 SCALE

BETA = .000 ELEVON = .000
AILRON = .000 BDFLAP = 22.500
SPDRK = 55.000 RUDDER = .000
ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 1/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.601	-1.514	-.00190	-.07760	.00140	.07900	-.18180	-.14360	-.10240	-.14100	-.22120	598.40000
1.601	-.146	-.00210	-.06390	-.00460	.06130	-.18130	-.14140	-.18190	-.13870	-.23080	598.40000
1.601	2.948	-.00220	-.03770	-.01820	.01950	-.17460	-.13600	-.17530	-.13310	-.25530	598.40000
1.601	6.046	-.00070	-.00780	-.03220	-.02440	-.16380	-.12930	-.16640	-.12820	-.28110	598.40000
1.601	9.146	-.00050	-.02320	-.03980	-.06300	-.15780	-.12500	-.15840	-.12390	-.31680	598.40000
1.601	12.260	-.00020	-.05700	-.04860	-.10560	-.15180	-.12180	-.15250	-.12080	-.35500	598.40000
1.601	15.360	-.00080	-.09130	-.05880	-.19010	-.14450	-.11950	-.14440	-.11880	-.39340	598.40000
1.601	18.470	-.00160	-.10400	-.06510	-.16900	-.14680	-.11900	-.14790	-.12020	-.40230	598.40000
1.601	19.400	-.00050	-.12360	-.06770	-.19330	-.14360	-.12010	-.14460	-.11850	-.43940	598.40000
1.601	21.590	-.00210	-.13420	-.07000	-.20430	-.14380	-.11870	-.14440	-.11600	-.43860	598.40000
1.601	24.700	-.00560	-.15420	-.07540	-.22960	-.14320	-.11320	-.14240	-.10840	-.46470	598.40000
1.601	27.820	-.00290	-.17850	-.08230	-.26080	-.14310	-.10110	-.14270	-.10440	-.49460	598.40000
GRADIENT		-.00320	-.17340	-.08340	-.25630	-.15150	-.09720	-.15120	-.10070	-.51030	598.40000
		-.00006	-.00897	-.00439	-.01336	.00171	.00171	.00168	.00178	-.00769	.00000

RUN NO. 2/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-1.505	-.00330	-.05200	.00160	.03350	-.15710	-.12530	-.15750	-.12150	-.18940	588.90000
2.002	-.162	-.00310	.04110	-.00370	.03740	-.15680	-.12360	-.15740	-.11980	-.19720	588.90000
2.002	2.925	-.00250	.01490	-.01570	-.00080	-.15290	-.11860	-.15380	-.11530	-.22120	588.90000
2.002	6.010	-.00210	-.01250	-.02560	-.03810	-.14620	-.11530	-.14760	-.11180	-.25110	588.90000
2.002	9.097	-.00110	-.04090	-.03490	-.07570	-.13910	-.11010	-.14050	-.10750	-.28570	588.90000
2.002	12.190	-.00020	-.06510	-.04330	-.10840	-.13190	-.10480	-.13350	-.10350	-.32010	588.90000
2.002	15.300	.00010	-.08700	-.05120	-.13820	-.12720	-.10130	-.12810	-.10050	-.35440	588.90000
2.002	18.390	.00620	-.10660	-.05810	-.16670	-.12190	-.09000	-.12330	-.09480	-.39380	588.90000
2.002	21.500	.00810	-.13120	-.06590	-.19710	-.11490	-.07640	-.11650	-.08280	-.44060	588.90000
2.002	24.590	.01150	-.15480	-.07370	-.22850	-.10440	-.05930	-.10930	-.08600	-.48640	588.90000
2.002	27.700	.00900	-.17020	-.07870	-.24890	-.08570	-.04480	-.09360	-.08400	-.52050	588.90000
GRADIENT		.00018	-.00839	-.00390	-.01230	.00100	.00153	.00089	.00141	-.00728	.00000

ARC 97-747 Q4338 B C M F VI V MOM. RM/L

(BEX002) (12 MAR 74)

REFERENCE DATA

SRF = 2.4210 SQ. FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRP = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

BETA = .000 ELEVOM = -10.000
 AIRLOW = .000 BDFLAP = -11.700
 SPDRK = 55.000 RUDDER = .000
 ELEV-L = -10.000 ELEV-R = -10.000

PARAMETRIC DATA

RUN NO. 3/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHP	CHEI	CHEO	CHEI	CHUL	CHLL	CHUR	CHLP	CHBF	Q
1.601	-1.495	-0.0450	.17960	.04430	.22390	-1.1790	-1.1910	-1.1760	-1.13490	.03130	590.00000
1.601	-1.146	-0.0470	.16670	.03700	.20370	-1.1750	-1.1710	-1.1740	-1.13280	.02940	590.00000
1.601	2.948	-0.0390	.14120	.02370	.16490	-1.1730	-1.1300	-1.1700	-1.12790	.02300	590.00000
1.601	6.048	-0.0300	.11390	.00900	.12280	-1.1600	-1.1200	-1.1600	-1.12290	.01550	590.00000
1.601	9.174	-0.0320	.08080	-0.00360	.07720	-1.1430	-1.1200	-1.1530	-1.11860	.00180	590.00000
1.601	12.250	-0.0350	.03780	-0.01610	.02170	-1.1400	-1.1150	-1.1460	-1.11540	-0.01020	590.00000
1.601	15.360	-0.0250	-0.00140	-0.02550	-0.02690	-1.1420	-1.1140	-1.1420	-1.11360	-0.02540	590.00000
1.601	18.480	-0.0300	-0.03420	-0.03350	-0.06770	-1.1370	-1.1140	-1.1360	-1.11200	-0.04000	590.00000
1.601	21.590	-0.02600	-0.06270	-0.04100	-0.10370	-1.1330	-1.1020	-1.1310	-1.10140	-0.05460	590.00000
1.601	24.710	-0.0300	-0.05180	-0.04700	-0.13880	-1.1300	-0.9170	-1.12910	-0.95390	-0.07430	590.00000
1.601	27.820	-0.02800	-0.08990	-0.04650	-0.12630	-1.13760	-0.96730	-1.13980	-0.99390	-0.09030	590.00000
GRADIENT		.00016	-0.02857	-0.00458	-0.01315	.00149	.00187	.00162	.00158	-0.00190	.00000

RUN NO. 4/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHP	CHEI	CHEO	CHEI	CHUL	CHLL	CHUR	CHLP	CHBF	Q
2.002	-1.528	-0.05000	.13470	.03200	.16670	-1.1260	-1.1220	-1.14980	-1.11590	.01550	585.20000
2.002	-1.155	-0.0570	.12220	.02670	.14890	-1.1320	-1.1190	-1.15180	-1.11530	.01400	585.20000
2.002	2.928	-0.0415	.09750	.01460	.11210	-1.1420	-1.1170	-1.14860	-1.11150	.00780	585.20000
2.002	6.023	-0.0460	.06400	.00430	.06820	-1.1420	-1.1130	-1.14160	-1.10750	.00300	585.20000
2.002	9.103	-0.0350	.03100	-0.00300	.02550	-1.1340	-1.1060	-1.13410	-1.10370	-0.00460	585.20000
2.002	12.190	-0.0060	.00580	-0.01700	-0.00790	-1.1260	-1.1010	-1.12690	-1.10020	-0.01530	585.20000
2.002	15.300	-0.0150	-0.01510	-0.01300	-0.03640	-1.1250	-1.0980	-1.12200	-0.9750	-0.03230	585.20000
2.002	18.490	-0.0350	-0.06090	-0.03360	-0.09640	-1.1100	-1.0730	-1.11000	-0.97970	-0.06680	585.20000
2.002	21.620	-0.0280	-0.08470	-0.04190	-0.12660	-0.9710	-0.9140	-1.09860	-0.96110	-0.08630	585.20000
2.002	24.710	-0.0480	-0.09820	-0.04500	-0.14320	-0.9740	-0.94370	-1.06410	-0.94080	-0.10010	585.20000
GRADIENT		.00100	-0.00829	-0.00391	-0.01220	.00085	.00166	.00040	.00108	-0.00178	.00000

ARC 87-747 O. 538 B C W F W I V MOM. RM/L

(BEK003) (12 MAR 74)

REFERENCE DATA

SREF = 2.4510 S4.FT. KREF = 32.3010 IM.
 LFC = 14.2440 IM. YREF = .5000 IM.
 BCF = 28.1004 IM. ZREF = 11.2500 IM.
 SCALE = .0300 SCALE

PARAMETRIC DATA

SFA = .002 ELEVOM = 15.000
 AILROM = .000 BDFLAP = -11.700
 SPDRK = 55.000 RUOSER = .000
 ELEV-L = 15.000 ELEV-P = 15.000

RUN NO. 10/ 5 RM/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHEY	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.001	-1.485	-0.0370	-0.05650	-0.06150	-0.11800	-0.18330	-0.13810	-0.18020	-0.13440	.00030	587.60010
1.001	-1.185	-0.0420	-0.06250	-0.06750	-0.12760	-0.17920	-0.13620	-0.17900	-0.13210	-.00280	587.60010
1.001	1.367	-0.0450	-0.05830	-0.07000	-0.13820	-0.17760	-0.13620	-0.17640	-0.12960	-.00750	587.60000
1.001	3.424	-0.0450	-0.08100	-0.07760	-0.15880	-0.17290	-0.12840	-0.17130	-0.12570	-.01360	587.60000
1.001	5.498	-0.0390	-0.10300	-0.08320	-0.18820	-0.16670	-0.12310	-0.16520	-0.12270	-.01940	587.60000
1.001	7.557	-0.0380	-0.12670	-0.09180	-0.21840	-0.16090	-0.12210	-0.15930	-0.11970	-.02350	587.60000
1.001	9.625	-0.0320	-0.14680	-0.09880	-0.24560	-0.15560	-0.11890	-0.15430	-0.11690	-.02460	587.60000
1.001	12.720	-0.0330	-0.16290	-0.11140	-0.29440	-0.15030	-0.11610	-0.14910	-0.11400	-.03460	587.60000
1.001	15.830	-0.0120	-0.21400	-0.12330	-0.33730	-0.14610	-0.11420	-0.14570	-0.11350	-.03740	587.60000
1.001	18.940	-0.0330	-0.24030	-0.13100	-0.37120	-0.14030	-0.11140	-0.13970	-0.10870	-.03870	587.60000
1.001	22.050	-0.0340	-0.26420	-0.13820	-0.40040	-0.13370	-0.10130	-0.13420	-0.09740	-.03960	587.60000
1.001	25.170	-0.0110	-0.29160	-0.14540	-0.43200	-0.13040	-0.09390	-0.13740	-0.09610	-.04060	587.60000
1.001	28.310	-0.0070	-0.30360	-0.14930	-0.44910	-0.14000	-0.08340	-0.13510	-0.09110	-.04150	587.60000
GRADIENT		-0.0012	-0.00510	-0.00318	-0.00827	.00151	.00001	.00184	.00177	-.00287	.00000

RUN NO. 9/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHEY	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-1.478	-0.0850	-0.04790	-0.04310	-0.09300	-0.16310	-0.12950	-0.15910	-0.11600	.00040	580.40000
2.002	-1.802	-0.0850	-0.05110	-0.04990	-0.10090	-0.16180	-0.11930	-0.15880	-0.11370	-.00140	585.40000
2.002	1.341	-0.0780	-0.05600	-0.05710	-0.11310	-0.15900	-0.11720	-0.15660	-0.11190	-.00470	580.40000
2.002	3.387	-0.0640	-0.07510	-0.06360	-0.13870	-0.15290	-0.11390	-0.15140	-0.10900	-.00970	580.40000
2.002	5.446	-0.0630	-0.09720	-0.07540	-0.16760	-0.14880	-0.11220	-0.14720	-0.10680	-.01940	580.40000
2.002	7.501	-0.0320	-0.12120	-0.07790	-0.19910	-0.14210	-0.10870	-0.14130	-0.10430	-.02070	580.40000
2.002	9.552	-0.0370	-0.13950	-0.08490	-0.22440	-0.13690	-0.10510	-0.13630	-0.10200	-.02810	580.40000
2.002	12.650	-0.0330	-0.16290	-0.09610	-0.25900	-0.13030	-0.10040	-0.12950	-0.09790	-.03420	580.40000
2.002	15.750	-0.0100	-0.18780	-0.10740	-0.29320	-0.12580	-0.09560	-0.12350	-0.09480	-.03690	580.40000
2.002	18.840	-0.0420	-0.21530	-0.11880	-0.33410	-0.12020	-0.08290	-0.12010	-0.08720	-.03750	580.40000
2.002	21.940	-0.0450	-0.24480	-0.13030	-0.37310	-0.11230	-0.06850	-0.11170	-0.07370	-.03770	580.40000
2.002	25.040	-0.0070	-0.27240	-0.14010	-0.41290	-0.10000	-0.03320	-0.10360	-0.05710	-.03840	580.40000
2.002	28.370	-0.0020	-0.29790	-0.14900	-0.44600	-0.07640	-0.03260	-0.07840	-0.03290	-.04500	580.40000
GRADIENT		-0.0045	-0.00554	-0.00386	-0.00942	.00212	.00137	.00162	.00141	-.00211	.00000

ARC 97-747 Q4338 B C M F W V MOM. RM/L

(BEK004) (12 MAR 74)

REFERENCE DATA

SREF = 2.4219 86.7T. ZMRP = 32.3010 IM.
 LREF = 14.2443 IM. YMRP = .0000 IM.
 BREF = 20.1504 IM. ZMRP = 11.2503 IM.
 SCALE = .0350 SCALE

BETA = .000 ELEVON = .000
 AILRON = 5.000 BDFLAP = -11.700
 SPDBRK = 35.000 RUDDER = .000
 ELEV-L = 5.000 ELEV-R = -5.000

RUN NO. 6/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHP	CHCI	CHCO	CHCT	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.000	-1.504	-.00270	.12870	-.02280	.13160	-.16880	-.13930	-.16740	-.13390	.01710	592.80000
1.000	-.198	-.00290	.11630	-.01330	.13170	-.16810	-.13760	-.16710	-.13370	.01380	592.80000
1.000	1.366	-.00260	.10410	-.00770	.11180	-.16480	-.13410	-.16530	-.13090	.01060	592.80000
1.000	3.415	-.00190	.08440	-.00060	.08380	-.16260	-.13010	-.16310	-.12770	.00700	592.80000
1.000	5.488	-.00190	.06530	-.00910	.03620	-.15940	-.12650	-.16000	-.12440	.00230	592.80000
1.000	7.589	-.00580	.04170	-.01300	.02660	-.15620	-.12320	-.15680	-.12180	-.00500	592.80000
1.000	9.638	-.00890	.02100	-.02320	-.00220	-.15130	-.12020	-.15220	-.11900	-.01570	592.80000
1.000	12.710	-.00100	-.01990	-.03260	-.03150	-.14330	-.11790	-.14610	-.11620	-.02800	592.80000
1.000	15.850	.00080	-.03210	-.04200	-.09410	-.14110	-.11550	-.14220	-.11310	-.04300	592.80000
GRADIENT	.00018	-.00280	-.00475	.01366	.01366	.00086	.00192	.00092	.00167	-.00204	.00000

RUN NO. 5/ 0 RM/L = 2.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHP	CHCI	CHCO	CHCT	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-1.488	-.00320	.09330	-.01590	.10920	-.15870	-.12390	-.15670	-.12070	.00570	574.90000
2.002	-.203	-.00430	.08100	-.01790	.09190	-.15600	-.12210	-.15680	-.11910	.00330	574.90000
2.002	1.323	-.00430	.06910	-.00760	.07490	-.15600	-.12080	-.15510	-.11720	.00320	574.90000
2.002	3.373	-.00430	.05030	-.00180	.04840	-.15270	-.11780	-.15180	-.11420	-.00360	574.90000
2.002	5.441	-.00320	.02820	-.00910	.02000	-.14870	-.11330	-.14890	-.11180	-.00620	574.90000
2.002	7.493	-.00260	.01540	-.00530	-.01370	-.14370	-.11230	-.14390	-.10960	-.01110	574.90000
2.002	9.581	-.00210	-.01660	-.02110	-.01190	-.13830	-.10930	-.13880	-.10700	-.01610	574.90000
2.002	12.630	-.00090	-.03250	-.00950	-.06160	-.13060	-.10740	-.13140	-.10280	-.02720	574.90000
2.002	15.730	.00070	-.05410	-.03630	-.09040	-.12610	-.09340	-.12640	-.09970	-.04140	574.90000
2.002	18.860	.00500	-.07640	-.04430	-.11970	-.12220	-.08730	-.12240	-.09820	-.05950	574.90000
2.002	21.950	.00580	-.09780	-.04950	-.14730	-.11190	-.07310	-.11260	-.07790	-.07870	574.90000
2.002	25.070	.00980	-.12130	-.05670	-.17790	-.09320	-.05350	-.10220	-.05860	-.09970	574.90000
2.002	28.990	.00420	-.13750	-.05110	-.19460	-.07770	-.02350	-.07440	-.02910	-.12350	574.90000
GRADIENT	.00011	-.00073	-.00236	.01236	.01236	.00126	.00123	.00105	.00133	-.00192	.00000

ARC 97-747 QAS38 B C M F W1 V NOM. RN/L

(08K005) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 50 FT. ZMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 OREF = 28.1004 IN. ZMRP = 11.2300 IN.
 SCALE = .0350 SCALE

BETA = .000 ELEVOM = -10.000
 AILROM = 3.000 BDFLAP = -11.700
 SPOBRK = 55.000 RUDDER = .000
 ELEV-L = -5.000 ELEV-R = -15.000

PARAMETRIC DATA

RUN NO. 8/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHEI	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.000	-1.460	-.00400	.22910	.03230	.20140	-.17520	-.13600	-.17480	-.13330	.03030	591.00000
1.000	-.191	-.00340	.21740	.04690	.26430	-.17350	-.13460	-.17360	-.13100	.02850	591.00000
1.000	1.353	-.00290	.20840	.04190	.23040	-.17030	-.13150	-.17070	-.12850	.02630	591.00000
1.000	3.419	-.00280	.18770	.03280	.22030	-.16320	-.12780	-.16500	-.12320	.02110	591.00000
1.000	5.408	-.00170	.16480	.02040	.18510	-.15960	-.12440	-.15980	-.12230	.01490	591.00000
1.000	7.530	-.00140	.14820	.01320	.15940	-.15340	-.12160	-.15390	-.11960	.00690	591.00000
1.000	9.616	-.00120	.11920	.00710	.12620	-.14860	-.11820	-.14900	-.11670	-.00090	591.00000
1.000	12.720	-.00170	.07560	-.00320	.06750	-.14300	-.11540	-.14340	-.11330	-.01480	591.00000
1.000	15.830	.00050	.02500	-.01180	.01330	-.13810	-.11250	-.13900	-.11170	-.02960	591.00000
1.000	18.940	-.00360	-.00020	-.01910	-.01930	-.13140	-.10930	-.13120	-.10820	-.04560	591.00000
1.000	22.050	-.00460	-.02500	-.02620	-.03120	-.12750	-.09890	-.12740	-.09430	-.06180	591.00000
1.000	25.170	.00200	-.05480	-.03210	-.06690	-.12630	-.08830	-.12690	-.08970	-.08330	591.00000
1.000	28.090	-.01090	-.00220	-.03240	-.03460	-.12990	-.08200	-.12630	-.07480	-.10370	591.00000
GRADIENT		.00024	-.00827	-.00393	-.01219	.00207	.00186	.00204	.00163	-.00187	.00000

RUN NO. 7/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHEI	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-1.468	-.01010	.16990	.04970	.21960	-.15960	-.12130	-.15580	-.11350	.01600	572.00000
2.002	-.208	-.00960	.15710	.04260	.19970	-.15860	-.12020	-.15560	-.11360	.01390	572.00000
2.002	1.337	-.00730	.14650	.03670	.18320	-.15600	-.11780	-.15420	-.11420	.01130	572.00000
2.002	3.390	-.00650	.13040	.02890	.15930	-.15240	-.11500	-.15170	-.10920	.00670	572.00000
2.002	5.445	-.00620	.10630	.02070	.12700	-.14860	-.11280	-.14820	-.10700	.00180	572.00000
2.002	7.504	-.00490	.08270	.01410	.09690	-.14260	-.10960	-.14280	-.10460	-.00370	572.00000
2.002	9.563	-.00300	.06100	.00850	.06690	-.13640	-.10560	-.13700	-.10190	-.00770	572.00000
2.002	12.660	-.00350	.03340	.00010	.03550	-.12910	-.10130	-.12950	-.09740	-.01690	572.00000
2.002	15.750	-.00190	.01590	-.00780	.00810	-.12490	-.09640	-.12520	-.09420	-.03550	572.00000
2.002	18.850	.00440	-.00860	-.01630	-.02510	-.11910	-.08430	-.12010	-.08770	-.05230	572.00000
2.002	21.940	.00610	-.03370	-.02360	-.03730	-.11150	-.06970	-.11170	-.07430	-.07030	572.00000
2.002	25.030	.00770	-.05630	-.02910	-.05650	-.09780	-.05180	-.10150	-.05580	-.09070	572.00000
2.002	28.930	.00660	-.06800	-.03210	-.05010	-.07330	-.02950	-.07960	-.02970	-.11050	572.00000
GRADIENT		.00080	-.00797	-.00420	-.01217	.00152	.00143	.00087	.00126	-.00191	.00000

ARC 97-747 Q4338 B C M F W1 V MON. RM/L

(18E006) (12 MAR 74)

REFERENCE DATA

REF = 2.4218 90.FT. XMRP = 32.3018 IN.
 LREF = 14.2449 IN. YMRP = .0000 IN.
 BREF = 28.1924 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 7.500
 AILRON = -7.500 BDFLAP = -11.700
 SPOBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = 15.000

RUN NO. 12/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMR	CMEI	CHEO	CMEI	CHUL	CMHL	CHUR	CMHR	CMHF	Q
1.000	-1.481	-0.0430	-0.06140	-0.06140	-1.1290	-1.1830	-1.14120	-1.18660	-1.13650	-0.0960	588.60000
1.000	-1.109	-0.05190	-0.06490	-0.06770	-1.13260	-1.18420	-1.13890	-1.18400	-1.13420	.00710	588.60000
1.000	1.360	-0.05340	-0.06370	-0.07010	-1.13980	-1.18040	-1.13600	-1.17960	-1.13140	-0.03500	588.60000
1.000	3.423	-0.05440	-0.08420	-0.07780	-1.16200	-1.17480	-1.13140	-1.17400	-1.12750	-0.0130	588.60000
1.000	5.449	-0.05410	-0.10350	-0.08490	-1.18990	-1.16830	-1.12790	-1.16000	-1.12420	-0.0720	588.60000
1.000	7.564	-0.05320	-0.12810	-0.09200	-1.22010	-1.16290	-1.12420	-1.16240	-1.12160	-0.1610	588.60000
1.000	9.621	-0.05370	-0.14860	-0.09900	-1.24760	-1.15800	-1.12100	-1.16590	-1.11830	-0.2750	588.60000
1.000	12.725	-0.05560	-0.18340	-0.11190	-1.29000	-1.15360	-1.11920	-1.15180	-1.11550	-0.4020	588.60000
1.000	15.855	-0.05440	-0.21450	-0.12310	-1.37760	-1.14960	-1.11760	-1.14840	-1.11450	-0.5610	588.60000
1.000	18.940	-0.05920	-0.24020	-0.13110	-1.57120	-1.14080	-1.11400	-1.13870	-1.10790	-0.7200	588.60000
1.000	22.050	-0.11110	-0.26750	-0.13650	-1.74050	-1.12600	-1.10540	-1.13610	-1.09910	-0.8410	588.60000
1.000	25.170	-0.05000	-0.29350	-0.14070	-1.93060	-1.12850	-1.09570	-1.13970	-1.09870	-1.0150	588.60000
1.000	28.130	-0.11350	-0.29860	-0.14490	-1.44350	-1.14420	-1.08800	-1.13910	-1.08310	-1.12910	588.60000
GRADIENT		.00000	-0.00462	-0.00317	-0.00777	.00242	.00200	.00261	.00184	-0.00226	.00000

RUN NO. 11/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMR	CMEI	CHEO	CMEI	CHUL	CMHL	CHUR	CMHR	CMHF	Q
2.002	-1.480	-0.07830	-0.05340	-0.04350	-1.09890	-1.16430	-1.12570	-1.16100	-1.12070	-0.0470	565.80000
2.002	-1.202	-0.05880	-0.05830	-0.05140	-1.10670	-1.16310	-1.12410	-1.15940	-1.11890	-0.1270	565.80000
2.002	1.338	-0.05680	-0.06070	-0.05730	-1.11870	-1.15860	-1.12190	-1.15650	-1.11730	-0.00070	565.80000
2.002	3.391	-0.05660	-0.07670	-0.06400	-1.14070	-1.15260	-1.11860	-1.15070	-1.11390	-0.05560	565.80000
2.002	5.447	-0.05560	-0.09620	-0.07090	-1.16710	-1.14640	-1.11710	-1.14930	-1.11190	-0.11140	565.80000
2.002	7.498	-0.05370	-0.11750	-0.07830	-1.19240	-1.14170	-1.11550	-1.14590	-1.10940	-0.1570	565.80000
2.002	9.556	-0.05380	-0.13310	-0.08520	-1.22020	-1.13630	-1.11370	-1.13560	-1.10690	-0.2290	565.80000
2.002	12.650	-0.05240	-0.16100	-0.09630	-1.27640	-1.12970	-1.11210	-1.12910	-1.10270	-0.3440	565.80000
2.002	15.750	-0.05210	-0.18600	-0.09740	-1.29340	-1.12510	-1.11030	-1.12590	-1.09940	-0.5030	565.80000
2.002	18.850	-0.04650	-0.21130	-0.11900	-1.33590	-1.11910	-1.09720	-1.11970	-1.09160	-0.6740	565.80000
2.002	21.940	-0.04990	-0.24300	-0.13000	-1.37900	-1.11150	-1.07790	-1.11110	-1.07790	-0.8510	565.80000
2.002	25.040	-0.06670	-0.27130	-0.14040	-1.41170	-1.09850	-1.05560	-1.10120	-1.05560	-1.12900	565.80000
2.002	28.950	-0.08820	-0.29310	-0.14840	-1.44360	-1.07690	-1.05610	-1.08490	-1.05610	-1.13480	565.80000
GRADIENT		.00044	-0.00477	-0.00365	-0.00562	.00215	.00147	.00214	.00138	-0.00215	.00000

DATE 16 JUL 74

TABULATED SOURCE DATA - Q4338

PAGE 107

ARC 97-747 Q4338 B C M F W1 V HIGH RM/L

(BEK007) (12 MAR 74)

REFERENCE DATA

SRFP = 2.4210 50. FT. YMRP = 32.3010 IN.
 LREF = 14.2445 IN. YMRP = .0000 IN.
 SRFP = 28.1054 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000
 ALLROM = .000 BOFLAP = 16.500
 SPOBRK = 55.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = 15.000

RUN NO. 14/ 0 RM/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHEY	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.001	-1.508	-0.0450	-0.08330	-0.05710	-0.14240	-0.10380	-0.13720	-0.10330	-0.13290	-0.20940	927.80000
1.001	-1.507	-0.0440	-0.08090	-0.06080	-0.14960	-0.10210	-0.13910	-0.10180	-0.13050	-0.21080	927.20000
1.001	1.398	-0.0580	-0.09340	-0.06620	-0.15960	-0.10060	-0.13260	-0.17930	-0.12790	-0.23260	927.20000
1.001	3.488	-0.0490	-0.10190	-0.07300	-0.17490	-0.10770	-0.12860	-0.17500	-0.12440	-0.25050	927.80000
1.001	5.595	-0.0470	-0.11010	-0.08140	-0.19930	-0.17000	-0.12340	-0.16940	-0.12130	-0.26660	927.20000
1.001	7.754	-0.0420	-0.13710	-0.08910	-0.22630	-0.16480	-0.12230	-0.16430	-0.11890	-0.29130	927.20000
1.001	9.810	-0.0400	-0.16240	-0.09830	-0.26070	-0.16020	-0.11950	-0.15980	-0.11590	-0.31300	927.20000
1.001	12.990	-0.0490	-0.19230	-0.11590	-0.30380	-0.15340	-0.11700	-0.15450	-0.11320	3302.00000	927.20000
1.001	16.160	-0.05170	-0.22220	-0.12340	-0.34560	-0.15120	-0.11560	-0.15140	-0.11370	3302.00000	927.20000
1.001	19.340	-0.02200	-0.24790	-0.13070	-0.37860	-0.14830	-0.11390	-0.14920	-0.11190	3301.00000	927.20000
1.001	22.530	-0.02270	-0.27200	-0.13630	-0.40820	-0.14800	-0.10460	-0.14600	-0.10400	3302.00000	927.20000
1.001	25.760	-0.0170	-0.30310	-0.14520	-0.44330	-0.14910	-0.09700	-0.14800	-0.09900	3303.00000	927.20000
1.001	29.730	-0.01040	-0.31270	-0.14340	-0.45620	-0.13950	-0.08110	-0.13410	-0.07610	3302.00000	927.20000
GRADIENT		-0.0011	-0.00331	-0.00321	-0.00633	-0.00159	-0.00172	-0.00170	-0.00169	-0.00829	.000000

RUN NO. 13/ 0 RM/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHEY	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-1.510	-0.01080	-0.06740	-0.04270	-0.11010	-0.16800	-0.12370	-0.16410	-0.11680	-0.16160	865.30000
2.002	-2.218	-0.01080	-0.07090	-0.04730	-0.11820	-0.16710	-0.12250	-0.16330	-0.11530	-0.17020	865.30000
2.002	1.352	-0.01010	-0.07500	-0.05200	-0.12700	-0.16360	-0.12040	-0.16060	-0.11330	-0.18310	865.30000
2.002	3.407	-0.00960	-0.08620	-0.05940	-0.14360	-0.15880	-0.11740	-0.15620	-0.11040	-0.20030	865.30000
2.002	5.523	-0.00880	-0.10380	-0.06680	-0.17260	-0.15330	-0.11460	-0.15090	-0.10840	-0.21910	865.30000
2.002	7.601	-0.00770	-0.12540	-0.07510	-0.20050	-0.14720	-0.11140	-0.14530	-0.10560	-0.23560	865.30000
2.002	9.691	-0.00690	-0.14240	-0.08260	-0.22350	-0.14180	-0.10800	-0.14010	-0.10290	-0.25400	865.30000
2.002	12.840	-0.00620	-0.16630	-0.09440	-0.26070	-0.13530	-0.10360	-0.13360	-0.09900	-0.28610	865.30000
2.002	16.010	-0.00230	-0.19130	-0.10520	-0.29660	-0.13010	-0.09810	-0.12910	-0.09690	-0.32420	865.30000
2.002	19.170	-0.00550	-0.21610	-0.11720	-0.33330	-0.12320	-0.08610	-0.12370	-0.08920	3494.00000	865.30000
2.002	22.330	-0.0070	-0.24400	-0.12920	-0.37320	-0.12020	-0.07150	-0.11910	-0.07330	6886.00000	865.30000
2.002	25.500	-0.0050	-0.27610	-0.13950	-0.41370	-0.10470	-0.03270	-0.11740	-0.05230	3435.00000	865.30000
2.002	29.500	-0.00420	-0.30420	-0.14890	-0.45310	-0.07290	-0.02750	-0.07700	-0.02760	3437.00000	865.30000
GRADIENT		-0.0027	-0.00379	-0.00337	-0.00715	-0.00194	-0.00130	-0.00165	-0.00132	-0.00795	.000000

ARC 97-747 Q4338 B C M F W I V LOW PM/L

(BEK009) (12 MAR 74)

REFERENCE DATA

ZREF = 2.4210 80.FT. ZMRP = 32.3010 IM.
 ZREF = 14.2440 IM. ZMRP = .0000 IM.
 ZREF = 28.1004 IM. ZMRP = 11.2500 IM.
 SCALE = .0000 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000
 AIRLON = .000 BOFLAP = 16.300
 SPDGRK = 55.500 RUDDER = .000
 ELEV-L = 15.500 ELEV-R = 15.500

RUN NO. 19/ 0 RM/L = 1.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMR	CMEI	CHEO	CMEI	CHUL	CHLL	CHUR	CHLR	CMRF	Q
1.000	-1.400	.00120	-.00690	-.00290	-.14980	-.18020	-.14700	-.18290	-.14540	-.20370	208.60000
1.000	-.195	.00110	-.00540	-.00600	-.16140	-.17880	-.14460	-.18130	-.14310	-.21650	208.60000
1.000	1.324	.00110	-.10840	-.07050	-.17890	-.17460	-.14110	-.17680	-.14000	-.23340	208.60000
1.000	5.356	.00090	-.12660	-.07910	-.20560	-.16870	-.13670	-.16960	-.13560	-.25350	208.60000
1.000	5.395	.00220	-.14510	-.08670	-.23100	-.16230	-.13340	-.16440	-.13350	-.28160	208.60000
1.000	7.401	.00260	-.16430	-.09410	-.25830	-.15710	-.13150	-.16590	-.13150	-.31220	208.60000
1.000	9.444	.00270	-.18740	-.10180	-.28930	-.15130	-.12840	-.16430	-.12810	-.33420	208.60000
1.000	12.480	.00340	-.21980	-.11460	-.33440	-.14400	-.12490	-.17470	-.12520	-.36350	208.60000
1.000	15.940	.00270	-.24630	-.12560	-.37210	-.14100	-.12330	-.18430	-.12350	-.39390	208.60000
1.000	18.600	.00040	-.26840	-.13330	-.40170	-.14020	-.12260	-.19420	-.12100	-.42510	208.60000
1.00	21.640	-.00170	-.29500	-.13930	-.42920	-.13950	-.11920	-.19410	-.11560	-.44890	208.60000
1.000	24.690	.00220	-.31590	-.14360	-.45900	-.14240	-.11410	-.19450	-.11330	-.47110	208.60000
1.000	28.350	.00320	-.32170	-.14850	-.48820	-.13780	-.09330	-.19460	-.09330	-.49340	208.60000
GRADIENT	-.00006	-.00006	-.00832	-.00337	-.01167	.00246	.00216	.00283	.00184	-.01127	.00000

RUN NO. 20/ 0 RM/L = 1.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMR	CMEI	CHEO	CMEI	CHUL	CHLL	CHUR	CHLR	CMRF	Q
2.002	-1.456	.00430	-.00910	-.03780	-.10690	-.13690	-.12640	-.16310	-.12410	-.17490	199.20000
2.002	-.201	.00320	-.07770	-.04350	-.12350	-.13530	-.12490	-.15950	-.12390	-.18370	199.20000
2.002	1.315	.00360	-.09120	-.05360	-.14480	-.15060	-.12360	-.15670	-.12100	-.20320	199.20000
2.002	5.336	.00210	-.10760	-.06210	-.16970	-.14830	-.11960	-.15190	-.11810	-.22150	199.20000
2.002	5.347	.00300	-.12420	-.07000	-.19420	-.14130	-.11710	-.16630	-.11600	-.24210	199.20000
2.002	7.371	.00450	-.14280	-.07780	-.22550	-.13780	-.11380	-.16220	-.11350	-.25620	199.20000
2.002	9.392	.00500	-.16100	-.08680	-.24980	-.13220	-.10970	-.16720	-.11040	-.27200	199.20000
2.002	12.410	.00570	-.19000	-.09900	-.28990	-.12410	-.10330	-.17930	-.10580	-.29380	199.20000
2.002	15.450	.00330	-.21310	-.11100	-.32410	-.12060	-.10400	-.18550	-.10250	-.31610	199.20000
2.002	18.480	.00440	-.23970	-.12310	-.36280	-.11560	-.09850	-.19950	-.09670	-.33940	199.20000
2.002	21.500	.00450	-.26810	-.13440	-.40250	-.11040	-.08350	-.21550	-.08160	-.36350	199.20000
2.002	24.940	.00000	-.29600	-.14510	-.44110	-.10220	-.07000	-.23050	-.06720	-.38810	199.20000
2.002	28.370	-.00410	-.32510	-.15590	-.47920	-.07830	-.04670	-.25020	-.03860	-.41360	199.20000
GRADIENT	-.00039	-.00039	-.00813	-.00556	-.01320	.00183	.00139	.00228	.00134	-.00989	.00000

ARC 97-747 Q4338 B C M F W V MON. RM/L

(BEK010) (12 MAR 74)

REFERENCE DATA

REF * 2.4810 94.FT. YMRP * 32.3010 IN.
 LREF * 14.2440 IN. YMRP * .0000 IN.
 REF * 20.1004 IN. YMRP * 11.2300 IN.
 SCALE * .0300 SCALE

PARAMETRIC DATA

BETA * .000 ELEVOM * .000
 AIRLON * .000 BOFLAP * 16.300
 SPDBRK * 55.000 RUDDER * .000
 ELEV-L * .000 ELEV-R * .000

RUN NO. 22/ 0 RM/L * 2.75 GRADIENT INTERVAL * -5.00/ 5.00

MACH	ALPHA	CMR	CMET	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.600	-1.539	-.00370	.00080	.00180	.00260	-.10140	-.13950	-.10000	-.13530	-.18040	590.10000
1.600	-1.199	-.00460	.00900	-.00420	.00460	-.17790	-.13700	-.17890	-.13340	-.10870	590.10000
1.600	1.343	-.00470	.00330	-.01090	.04440	-.17730	-.13430	-.17610	-.13070	-.19950	590.10000
1.600	3.407	-.00400	.00890	-.01980	.01730	-.17790	-.13010	-.17170	-.12730	-.21490	590.10000
1.600	5.519	-.00360	.01750	-.02930	.01180	-.16680	-.12590	-.16570	-.12340	-.23330	590.10000
1.600	7.542	-.00430	-.00340	-.03640	-.04170	-.16130	-.12300	-.15940	-.12030	-.25620	590.10000
1.600	9.609	-.00400	-.02300	-.04010	-.06310	-.15680	-.12010	-.15460	-.11730	-.28290	590.10000
1.600	12.710	-.00450	-.06200	-.04960	-.11170	-.15100	-.11730	-.14930	-.11460	-.31360	590.10000
1.600	15.790	-.00310	-.09660	-.06500	-.15670	-.14710	-.11640	-.14610	-.11430	-.34730	590.10000
1.600	18.930	-.00660	-.12990	-.06820	-.17820	-.14480	-.11750	-.14330	-.11240	-.37870	590.10000
1.800	22.100	-.00820	-.15750	-.07650	-.23390	-.14280	-.10700	-.13980	-.10190	-.41110	590.10000
1.800	25.110	-.01020	-.18130	-.09730	-.26420	-.14220	-.09830	-.14130	-.09900	-.43760	590.10000
1.800	28.040	-.01160	-.18320	-.09630	-.26940	-.14310	-.09870	-.13670	-.08360	-.47740	590.10000
GRADIENT		.00030	-.00286	-.00432	-.01320	.00174	.00169	.00172	.00163	-.00701	.00000

RUN NO. 21/ 0 RM/L * 2.75 GRADIENT INTERVAL * -5.00/ 5.00

MACH	ALPHA	CMR	CMET	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-1.554	-.00510	.00410	.00210	.03620	-.16160	-.12000	-.15940	-.11770	-.14030	563.00000
2.002	-1.800	-.00450	.00210	-.00330	.03910	-.16010	-.11900	-.15830	-.11610	-.15610	563.00000
2.002	1.333	-.00470	.00200	-.00900	.01990	-.15690	-.11740	-.15590	-.11380	-.16370	563.00000
2.002	3.380	-.00410	.01200	-.01710	.00500	-.15200	-.11750	-.15170	-.11100	-.18060	563.00000
2.002	5.481	-.00400	-.00970	-.02390	.03160	-.14730	-.11270	-.14680	-.10870	-.19910	563.00000
2.002	7.473	-.00300	-.00340	-.03360	.05770	-.14130	-.10340	-.14150	-.10640	-.21910	563.00000
2.002	9.590	-.00280	-.04330	-.03820	.07880	-.13620	-.10360	-.13630	-.10300	-.24750	563.00000
2.002	12.610	-.00190	-.06660	-.05430	-.11540	-.12860	-.10060	-.12920	-.09930	-.27390	563.00000
2.002	15.730	.00020	-.08500	-.05110	-.14000	-.12340	-.10330	-.12340	-.09650	-.31000	563.00000
2.002	18.820	.00340	-.10960	-.05830	-.16810	-.12100	-.08490	-.12140	-.09310	-.34720	563.00000
2.002	21.920	.00520	-.13250	-.06600	-.19870	-.11400	-.07160	-.11460	-.09760	-.38720	563.00000
2.002	25.020	.00380	-.15740	-.07440	-.23190	-.10370	-.05700	-.10610	-.08840	-.43160	563.00000
2.002	28.000	.00420	-.17670	-.08110	-.25770	-.09310	-.03860	-.07990	-.08290	-.47480	563.00000
GRADIENT		.00017	-.00062	-.00369	-.01240	.00195	.00123	.00160	.00137	-.00655	-.00000

DATE 16 JUL 66

TABULATED SOURCE DATA - 04338

PAGE 111

ABC 97-747 04338 B C M P W L V NOM. RM/L

(BEK011) (12 MAR 74)

REFERENCE DATA

SRCV = 2.4210 30-FT. ZMRP = 32.3010 IN.
 LRRP = 14.2445 IN. ZMRP = .0000 IN.
 SRCV = 28.1554 IN. ZMRP = 11.2500 IN.
 SCALE = .0050 SCALE

BETA = .00. ELEVOM = .000
 AILROM = .000 BDFLAP = -11.700
 SPOBRK = 95.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 27/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	CMR	CHET	CHCO	CHET	CHUL	CHLL	CHUR	CHLR	CMRF	Q
1.000	-1.409	-.00310	.00030	.00170	-.00200	-.10210	-.13140	-.10160	-.12690	.02080	590.10000
1.000	-.183	-.00470	.00860	-.00450	.00400	-.10110	-.12870	-.10910	-.12490	.01750	590.10000
1.000	1.364	-.00330	.00490	-.0112	.04370	-.17830	-.12600	-.17730	-.12190	.01520	590.10000
1.000	3.430	-.00430	.03500	-.02000	.01360	-.17350	-.12170	-.17230	-.11650	.01110	590.10000
1.000	9.107	-.00420	.01660	-.02970	-.01310	-.16800	-.11000	-.16660	-.11520	.00300	590.10000
1.000	7.339	-.00300	-.00000	-.03640	-.04180	-.16270	-.11520	-.16260	-.11230	-.00250	590.10000
1.000	9.642	-.00450	-.02300	-.03910	-.06480	-.15950	-.11210	-.15190	-.10930	-.01150	590.10000
1.000	12.725	-.00370	-.00250	-.04940	-.11190	-.15340	-.11010	-.15130	-.10650	-.01060	590.10000
1.000	15.830	-.00320	-.00830	-.06040	-.15070	-.15010	-.10910	-.14800	-.10500	-.04100	590.10000
1.000	17.910	-.00780	-.12130	-.06630	-.10790	-.14700	-.11010	-.13450	-.10550	-.05540	590.10000
1.000	18.940	-.00370	-.13070	-.06880	-.19950	-.14260	-.10720	-.13950	-.10250	-.05550	590.10000
1.000	22.080	-.01100	-.15610	-.07610	-.23220	-.13960	-.09610	-.13320	-.08940	-.06870	590.10000
1.000	25.180	-.00180	-.17330	-.08260	-.25790	-.14150	-.08770	-.13850	-.08880	-.06870	590.10000
1.000	29.120	-.01350	-.18550	-.08660	-.27210	-.14210	-.07950	-.13480	-.07280	-.11610	590.10000
GRADIENT		.00012	-.00904	-.00439	-.01342	.00178	.00195	.00187	.00173	-.00192	.00000

RUN NO. 23/ 0 RM/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	CMR	CHET	CHCO	CHET	CHUL	CHLL	CHUR	CHLR	CMRF	Q
2.002	-1.408	-.00030	.00300	.00180	-.05480	-.16060	-.11280	.15670	-.10820	.00970	562.70000
2.002	-.183	-.00770	.04160	-.00310	.03860	-.15830	-.11100	-.15360	-.10610	.00730	562.70000
2.002	1.376	-.00630	.02850	-.00930	.01930	-.15460	-.10940	-.15310	-.10460	.00380	562.70000
2.002	3.373	-.00630	.01260	-.01690	-.00430	-.15060	-.10670	-.14900	-.10210	-.01150	562.70000
2.002	9.444	-.00600	-.00730	-.02300	-.03120	-.14560	-.10470	-.14470	-.09970	-.02590	56.70000
2.002	7.480	-.00490	-.02390	-.03000	-.05360	-.14060	-.10140	-.13980	-.09730	-.01100	562.70000
2.002	9.350	-.00420	-.04370	.00360	.07930	-.13530	-.09790	-.13490	-.09410	.01630	562.70000
2.002	12.620	-.00380	-.06670	-.04390	-.11060	-.12840	-.08860	-.12790	-.08970	-.02660	562.70000
2.002	15.700	-.00230	-.08690	-.03170	-.14060	-.12430	-.08860	-.12350	-.08710	.04070	562.70000
2.002	18.870	.00380	-.11100	-.03860	-.16960	-.11900	-.07620	-.11880	-.08030	-.03680	562.70000
2.102	21.940	.00490	-.13280	-.06660	-.19930	-.11030	-.06140	-.11240	-.06620	-.07440	562.70000
2.002	25.040	.00320	-.14700	-.07440	-.23140	-.09830	-.04530	-.10130	-.04750	-.04950	562.70000
2.002	28.930	.00670	-.17380	-.08050	-.25440	-.07480	-.02430	-.08140	-.02460	-.11760	562.70000
GRADIENT		.00045	-.00831	-.00386	-.01217	.00209	.00120	.00161	.00122	-.00232	.00000

ARC 97-747 Q4338 B C M F W1 V MOM. RN/L

(BEK012) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 94-FT. XMRP = 32.3010 IN.
LREF = 14.2440 IN. YMRP = .0000 IN.
BREF = 28.1004 IN. ZMRP = 11.2500 IN.
SCALE = .0300 SCALE

ALPHA = .000 ELEVOM = .000
FILROM = .000 BOFLAP = -11.700
SPDRK = 99.000 R-ORDER = .000
ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 28/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CNET	CHL2	CHLL	CHUR	CHLR	CHBF	Q
1.000	-5.185	-.09438	.03920	-.00410	.05510	-.19650	-.14400	-.15260	-.10360	.01300	595.70000
1.000	-3.082	-.05230	.06370	-.00370	.06000	-.18520	-.14220	-.16250	-.11260	.01440	595.70000
1.000	-1.934	-.02070	.06770	-.00450	.06330	-.17830	-.13300	-.17000	-.12060	.01620	595.70000
1.000	-.013	-.00370	.06800	-.00440	.06360	-.17540	-.12920	-.17440	-.12450	.01720	595.70000
1.000	1.015	.00780	.07090	-.00400	.06690	-.17320	-.12540	-.17780	-.12870	.01690	595.70000
1.000	3.071	.04040	.07470	-.00320	.07150	-.16810	-.11640	-.18590	-.13300	.01470	595.70000
1.000	5.132	.07445	.07720	-.00190	.07340	-.15810	-.10780	-.19470	-.14560	.01210	595.70000
1.000	5.772	.08540	.07750	-.00190	.07570	-.15370	-.10560	-.19710	-.14770	.01160	595.70000
GRADIENT	.01495	.00177	.00177	.00010	.00186	.00275	.00414	-.00380	-.00426	.00908	-.00000

RUN NO. 24/ 0 RN/L = 2.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CNET	CHL2	CHLL	CHUR	CHLR	CHBF	Q
2.002	-5.555	-.11050	.04080	-.00600	.03480	-.18630	-.14200	-.13650	-.08130	.00290	563.70000
2.002	-3.471	-.07070	.04230	-.00490	.03740	-.17180	-.13070	-.14040	-.09130	.00360	563.70000
2.002	-1.456	-.02910	.04270	-.00360	.03910	-.16200	-.11840	-.14870	-.10250	.00660	563.70000
2.002	-.389	-.00700	.04360	-.00290	.04010	-.15660	-.11130	-.15340	-.10750	.00740	563.70000
2.002	.640	.01360	.04390	-.00220	.04170	-.15060	-.10460	-.15710	-.11200	.00720	563.70000
2.002	2.719	.05820	.04790	-.00130	.04660	-.14140	-.09630	-.16750	-.12630	.00470	563.70000
2.002	4.752	.09490	.05210	.00030	.05210	-.13360	-.08710	-.17820	-.13730	.00340	563.70000
2.002	5.954	.12250	.05390	.00070	.05460	-.12210	-.08310	-.18460	-.14320	.00290	563.70000
GRADIENT	.02018	.00123	.00123	.00058	.00182	.00470	.00327	-.00458	-.00463	-.00016	.00003

ARC 97-747 04538 B C M F W1 V MOM. RM/L

(BEX013) (12 MAR 74)

REFERENCE DATA

SRF = 2.4210 50.FT. YMRP = 32.3010 IN.
LREF = 14.2440 IN. YMRP = .0000 IN.
SRF = 20.1004 IN. ZMRP = 11.2500 IN.
SCALE = .0300 SCALE

ALPHA = 10.000 ELEVON = .000
AILRON = .000 BDFLAP = -11.700
SPDRK = 55.000 RUDDER = .000
ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 29/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.600	-5.046	-0.0380	-0.0340	-0.0430	-0.0780	-0.16910	-0.13170	-0.13210	-0.08490	-0.01720	595.10000
1.600	-5.016	-0.0360	-0.0320	-0.0430	-0.0750	-0.15980	-0.12470	-0.13650	-0.09440	-0.01850	595.10000
1.600	-5.996	-0.02140	-0.03440	-0.04370	-0.07810	-0.15210	-0.11590	-0.14320	-0.10340	-0.01500	595.10000
1.600	.024	-0.00480	-0.03370	-0.04250	-0.07620	-0.14840	-0.11110	-0.14670	-0.10810	-0.01360	595.10000
1.600	1.038	0.01080	-0.03090	-0.04200	-0.07290	-0.14500	-0.10740	-0.14980	-0.11330	-0.01350	595.10000
1.600	3.062	0.04250	-0.03210	-0.04080	-0.07290	-0.13810	-0.09850	-0.15710	-0.12200	-0.01750	595.10000
1.600	5.104	0.07300	-0.03590	-0.04580	-0.08160	-0.13030	-0.09020	-0.16470	-0.12880	-0.01590	595.10000
1.600	6.927	0.10890	-0.03750	-0.04510	-0.08260	-0.12100	-0.07940	-0.17220	-0.13710	-0.01460	595.10000
GRADIENT	0.01581	0.00019	.00045	.00064	.00064	.00356	.00430	-.00337	-.00457	.00022	-.00000

RUN NO. 25/ 0 RM/L = 2.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-5.426	-0.10000	-0.04190	-0.03640	-0.07830	-0.16100	-0.12160	-0.11310	-0.06950	-0.02430	562.70000
2.002	-3.393	-0.06640	-0.04490	-0.03810	-0.08300	-0.14800	-0.11320	-0.11720	-0.07770	-0.02180	562.70000
2.002	-1.343	-0.02280	-0.04670	-0.03760	-0.08430	-0.13480	-0.10390	-0.12380	-0.09000	-0.01820	562.70000
2.002	-.343	-0.00350	-0.04810	-0.03740	-0.08550	-0.12980	-0.09700	-0.12870	-0.09460	-0.01780	562.70000
2.002	.659	0.01380	-0.04840	-0.03700	-0.08540	-0.12580	-0.09140	-0.13150	-0.09950	-0.01820	562.70000
2.002	2.893	0.05920	-0.04780	-0.03610	-0.08400	-0.11650	-0.07910	-0.14150	-0.11330	-0.02160	562.70000
2.002	4.728	0.09210	-0.04660	-0.03510	-0.08170	-0.10690	-0.07170	-0.15110	-0.11960	-0.02400	562.70000
2.002	6.769	0.14000	-0.04250	-0.03420	-0.07670	-0.09540	-0.06230	-0.16290	-0.13480	-0.02670	562.70000
2.002	8.801	0.16900	-0.03530	-0.03400	-0.06930	-0.07770	-0.06030	-0.16830	-0.13870	-0.02910	562.70000
GRADIENT	0.01965	0.00019	.00037	.00037	.00018	.00492	.00531	-.00413	-.00528	-.00044	.00000

ARC 97-747 04538 B C M F W1 V MOM. IN/L

(BKK014) (12 MAR 74)

VLTG 324383438

9827 = 2.4210 30.FT. 2MRP = 32.3010 IN.
 1REF = 14.2440 IN. 4MRP = .0000 IN.
 9827 = 20.1004 IN. 2MRP = 11.2500 IN.
 3SCALE = .0000 3SCALE

ALPHA	20,000	ELEVON	.000
ALTRON	.000	BDFLAP	-11,700
SPDRK	55,000	RUCER	.000
ELEV-L	.000	ELEV-R	.000

PARAMETRIC DATA

RUN NO. 30/0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	CWR	CWEI	CHEO	CNET	CHUL	CHLL	CHUR	CHLR	CHBF	θ
1.850	-5.047	-0.1460	-1.4310	-0.0720	-2.1500	-1.1430	-0.07350	-1.1120	-0.09110	-0.03320	595.40000
1.850	-2.987	-0.0260	-1.4230	-0.07270	-2.1500	-1.1430	-0.08990	-1.1130	-0.08990	-0.03550	595.40000
1.850	-0.945	-0.03180	-1.4380	-0.07260	-2.1640	-1.1320	-1.10560	-1.1210	-0.09000	-0.06540	595.40000
1.850	0.585	-0.02840	-1.4310	-0.07240	-2.1550	-1.1290	-0.09950	-1.1260	-0.09360	-0.06020	595.40000
1.850	1.585	0.02530	-1.4140	-0.07240	-2.1390	-1.1210	-0.09250	-1.1340	-0.09950	-0.03980	595.40000
1.850	3.127	0.03550	-1.3990	-0.07160	-2.1150	-1.1290	-0.08380	-1.1400	-0.09350	-0.03755	595.40000
1.850	5.168	0.02510	-1.3450	-0.07250	-2.0680	-1.0700	-0.07570	-1.1420	-0.06500	-0.03380	595.40000
1.850	7.218	0.03620	-1.2530	-0.07240	-2.0850	-0.0870	-0.06960	-1.1850	-0.05470	-0.04790	595.40000
1.850	9.271	0.04650	-1.1510	-0.07220	-1.8850	-0.0480	-0.07220	-1.1340	-0.07190	-0.04650	595.40000
GRADIENT		0.01197	0.02247	0.02517	0.00954	0.00499	0.00154	0.00452	0.00056	0.00927	-0.00000

RUN NO.	26/ 5	RH/L = 2.75	GRAC. ENT INTERVAL = -5.00/ 5.00
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WACH	BETA	CHR	CHWI	CHFO	CHET	CHUL	CHLL	CHUF	CHLR	CHRF	Q
2.002	-5.423	.01310	-.11200	-.01160	-.17360	-.11570	-.04230	-.05320	-.07850	-.06227	580.900000
2.002	-3.363	.00760	-.10850	-.01050	-.18110	-.10230	-.04940	-.03920	-.07810	-.06100	580.900000
2.002	-1.322	-.00860	-.12050	-.06230	-.18330	-.11460	-.07110	-.10230	-.07480	-.07770	580.900000
2.002	-.324	.00320	-.12060	-.09310	-.18360	-.10890	-.06880	-.10700	-.07330	-.06530	580.900000
2.002	.700	.01820	-.12050	-.06310	-.18360	-.115400	-.06280	-.11290	-.07390	-.06620	580.900000
2.002	2.741	.00700	-.11570	-.06370	-.18310	-.09650	-.06590	-.11650	-.05590	-.06660	580.900000
2.002	3.772	-.00240	-.10660	-.06440	-.18470	-.08210	-.06360	-.11660	-.03690	-.06120	580.900000
2.002	6.834	.01590	-.11570	-.06450	-.17970	-.08240	-.05770	-.10080	-.03320	-.06650	580.900000
2.002	8.879	.06470	-.11130	-.06390	-.17510	-.03640	-.05290	-.09750	-.04650	-.06430	580.900000
CHADIAN		-.00910	-.00000	-.06020	-.06030	-.00400	-.00000	-.00200	-.00000	-.00000	-.000000

DATE 16 JUL 74

TABULATED SOURCE DATA - OAS38

PAGE 113

ARC 97-747 OAS38 B C M F W I Y LOW RM/L

(BEK015) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 58.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AIRLON = .000 BCFLAP = .000
 SPDBRK = 99.000 RUDRER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 36/ 0 RM/L = 1.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHEI	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.601	-1.515	.00120	.08900	.00100	.09000	-.18280	-.13530	-.18490	-.13430	-.02270	254.90000
1.601	-1.188	.00540	.07640	-.00600	.07040	-.18020	-.13120	-.18390	-.13290	-.02780	254.90000
1.601	1.331	.00420	.05900	-.01280	.04620	-.17580	-.12800	-.17900	-.12900	-.02770	254.90000
1.601	3.349	.00460	.04230	-.02080	.02140	-.16980	-.12390	-.17300	-.12530	-.03890	254.90000
1.601	5.377	.00390	.02100	-.02750	.00650	-.16570	-.12070	-.16840	-.12200	-.04910	254.90000
1.601	7.398	.00580	-.00720	-.03330	-.04050	-.16120	-.11780	-.16460	-.12020	-.05850	254.90000
1.601	9.428	.00600	-.03230	-.04020	-.07260	-.15630	-.11460	-.15960	-.11730	-.07050	254.90000
1.601	12.470	.00560	-.06860	-.05060	-.11940	-.15110	-.11230	-.15450	-.11440	-.08920	254.90000
1.601	15.510	.00490	-.10130	-.06390	-.16320	-.14770	-.11050	-.15050	-.11270	-.10870	254.90000
1.601	18.560	.00140	-.13330	-.06960	-.20290	-.14210	-.10610	-.14430	-.10530	-.12870	254.90000
1.601	21.610	.00070	-.15940	-.07730	-.23570	-.13830	-.10080	-.14120	-.09850	-.15090	254.90000
1.601	24.650	.00490	-.18400	-.08460	-.26860	-.13690	-.09350	-.14070	-.09460	-.17230	254.90000
1.601	28.460	.01010	-.18930	-.08820	-.27740	-.14050	-.08270	-.14780	-.08560	-.20110	254.90000
GRADIENT		.00051	-.00973	-.00445	-.01420	.00271	.00230	.00256	.00193	-.00308	.00000

RUN NO. 35/ 0 RM/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHEI	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-1.321	.00700	.04960	.00000	.04960	-.16320	-.11720	-.16940	-.11800	-.03330	201.50000
2.002	-1.198	.00840	.03920	-.00330	.03590	-.15800	-.11800	-.16530	-.11710	-.03900	201.50000
2.002	1.315	.00470	.02750	-.00830	.01910	-.15630	-.11610	-.16230	-.11480	-.04600	201.50000
2.002	3.334	.00470	.01040	-.01500	-.00430	-.15250	-.11280	-.15800	-.11200	-.05390	201.50000
2.002	5.351	.00540	-.01070	-.02170	-.03240	-.14540	-.10940	-.15070	-.10940	-.06210	201.50000
2.002	7.374	.00710	-.03170	-.02790	-.05960	-.14070	-.10670	-.14730	-.10710	-.07340	201.50000
2.002	9.408	.00470	-.04750	-.03390	-.08140	-.13640	-.10310	-.14140	-.10270	-.08570	201.50000
2.002	12.420	.00570	-.05930	-.04250	-.11190	-.12780	-.09790	-.13360	-.09780	-.09850	201.50000
2.002	15.440	.00540	-.08970	-.05060	-.14020	-.12480	-.09340	-.13100	-.09460	-.12140	201.50000
2.002	18.480	.00820	-.11020	-.05890	-.16910	-.12130	-.08840	-.12700	-.09090	-.15290	201.50000
2.002	21.510	.00630	-.13520	-.06700	-.20220	-.10310	-.07560	-.11910	-.07640	-.17900	201.50000
2.002	24.540	.00360	-.15940	-.07330	-.23470	-.10310	-.05930	-.10690	-.05920	-.21030	201.50000
2.002	28.350	.00160	-.18310	-.08290	-.26610	-.08310	-.03860	-.08800	-.03530	-.24240	201.50000
GRADIENT		-.00066	-.00806	-.00313	-.01117	.00207	.00084	.00230	.00127	-.00427	.00000

ARC 97-747 04538 S C M F W V MON. RM/L

(8EK016) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 98. FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AIRLOM = .000 BOFLAP = .000
 SPDBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 33/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMR	CMEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.000	-1.486	-0.0020	.07940	.00110	.08050	-0.18180	-0.13320	-0.18240	-0.13250	-0.03750	602.30000
1.000	-2.16	-0.0110	.06800	-.00480	.06310	-0.17990	-0.13310	-0.18140	-0.13060	-0.04320	602.30000
1.000	1.387	-0.0120	.05370	-.01170	.04190	-0.17680	-0.12990	-0.17810	-0.12740	-0.04860	602.30000
1.000	3.441	-0.0080	.03480	-.02030	.01450	-0.17130	-0.12370	-0.17230	-0.12400	-0.05820	602.30000
1.000	5.505	-0.0100	.01620	-.02960	-.01340	-0.16540	-0.12280	-0.16640	-0.12090	-0.06530	602.30000
1.000	7.543	-0.0040	-.00600	-.03660	-.04260	-0.15990	-0.11960	-0.16090	-0.11820	-0.07750	602.30000
1.000	9.645	-0.0070	-.02620	-.04070	-.06690	-0.15530	-0.11700	-0.15610	-0.11540	-0.09200	602.30000
1.000	12.720	-0.0080	-.06290	-.05020	-.11310	-0.15020	-0.11450	-0.15090	-0.11290	-0.11400	602.30000
1.000	15.820	-0.0020	-.09710	-.06060	-.15770	-0.14620	-0.11250	-0.14720	-0.11170	-0.13810	602.30000
1.000	18.960	-0.0240	-.12990	-.06890	-.19880	-0.14090	-0.11160	-0.14210	-0.10760	-0.16040	602.30000
1.000	22.060	-0.0350	-.15700	-.07600	-.23300	-0.13870	-0.10150	-0.13840	-0.09630	-0.18270	602.30000
1.000	25.190	-0.0500	-.18010	-.08310	-.26320	-0.13000	-.09350	-0.14040	-0.09210	-0.20930	602.30000
1.000	29.120	-0.0650	-.18480	-.09650	-.27130	-0.13700	-.08310	-0.12600	-0.07750	-0.24620	602.30000
GRADIENT		.00024	-.00905	-.00433	-.01337	.00214	.00194	.00210	.00175	-.00374	.00000

RUN NO. 34/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMR	CMEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-1.549	-0.01090	.05250	.00210	.05450	-0.16410	-0.12150	-0.16500	-0.11460	-0.03160	589.40000
2.002	-2.06	-0.01000	.04050	-.01300	.03750	-0.16230	-0.11970	-0.15890	-0.11310	-0.03610	589.40000
2.002	1.330	-0.00940	.02780	-.00890	.01890	-0.15860	-0.11770	-0.15600	-0.11090	-0.04190	589.40000
2.002	3.395	-0.00850	.01070	-.01680	-.00600	-0.15360	-0.11480	-0.15150	-0.10830	-0.05070	589.40000
2.002	5.472	-0.00850	-.00870	-.02400	-.03270	-0.14820	-0.11290	-0.14660	-0.10620	-0.05910	589.40000
2.002	7.503	-0.00810	-.02680	-.02990	-.05680	-0.14330	-0.10370	-0.14140	-0.10350	-0.06640	589.40000
2.002	9.567	-0.00370	-.04490	-.03350	-.08030	-0.13760	-.09750	-0.13660	-0.10020	-0.07920	589.40000
2.002	12.660	-0.00650	-.06910	-.04390	-.11200	-0.13090	-0.09160	-0.13000	-0.09540	-0.09610	589.40000
2.002	15.760	-0.00710	-.09060	.05230	-.11430	-0.12660	-.09750	-0.12310	-0.09190	-0.12050	589.40000
2.002	18.870	-0.00040	-.11160	-.05890	-.17030	-0.12110	-.08550	-0.12100	-0.08520	-0.14660	589.40000
2.002	21.970	.00300	-.13470	-.06710	-.20180	-0.11360	-.07100	-0.11440	-0.07320	-0.17260	589.40000
2.002	25.080	.00700	-.15850	-.07490	-.23330	-0.10120	-.05180	-0.10460	-0.05540	-.20110	589.40000
2.002	28.980	.00830	-.17300	-.08080	-.25370	-0.07610	-.03910	-0.08110	-0.03250	-0.23370	589.40000
GRADIENT		.00047	-.00843	-.00383	-.01227	.00217	.00135	.00176	.00132	-.00388	.00000

ARC 97-747 QAS38 B C M F W1 V HIGH RN/L

(BER017) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0000 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AILROM = .000 BDFLAP = .000
 SPCDRK = 55.000 RUDDER = .000
 CLEV-L = .000 ELEV-R = .000

RUN NO. 32/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHEI	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.000	-1.508	-.00360	.07710	.00100	.07810	-.14300	-.11150	-.11370	-.12800	-.03880	921.00000
1.000	-.172	-.00420	.06520	-.00450	.06080	-.12250	-.12960	-.18200	-.12580	-.04260	921.00000
1.000	1.393	-.00400	.05120	-.01070	.04050	-.17980	-.12670	-.17900	-.12350	-.04720	921.00000
1.000	3.483	-.00340	.03190	-.01860	.01320	-.17420	-.12370	-.17380	-.12030	-.05510	921.00000
1.000	5.578	-.00280	.01370	-.02690	-.01380	-.17470	-.11960	-.16790	-.11740	-.06460	921.00000
1.000	7.758	-.00270	-.00800	-.03370	-.04170	-.16320	-.11640	-.16260	-.11440	-.07620	921.00000
1.000	9.815	-.00280	-.02800	-.03850	-.06650	-.15890	-.11360	-.15800	-.11160	-.08870	921.00000
1.000	13.020	-.00340	-.06840	-.03160	-.12000	-.15370	-.11180	-.15290	-.10920	-.10810	921.00000
1.000	16.170	-.00090	-.09760	-.06030	-.15800	-.14900	-.10980	-.14900	-.10900	-.13540	921.00000
1.000	19.320	-.00640	-.12740	-.06800	-.19340	-.14350	-.12810	-.14240	-.10270	-.15760	921.00000
1.000	22.530	-.00320	-.15250	-.07530	-.22780	-.14200	-.03790	-.14070	-.09390	-.17880	921.00000
1.000	25.710	-.00170	-.16890	-.08100	-.25000	-.14250	-.09020	-.14210	-.06870	-.20460	921.00000
1.000	29.790	-.00910	-.18450	-.08520	-.26970	-.13680	-.07580	-.12840	-.06910	-.23970	921.00000
GRADIENT		.00006	-.00905	-.00392	-.01500	.00194	.00167	.00200	.00153	-.00359	.00000

RUN NO. 31/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHEI	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-1.518	-.01160	.05050	.00190	.03240	-.16140	-.11710	-.15700	-.10980	-.03140	868.90000
2.002	-.232	-.01150	.04000	-.00320	.03690	-.16070	-.11620	-.15670	-.10860	-.03520	868.90000
2.002	1.371	-.01080	.02700	-.00920	.01780	-.15800	-.11370	-.15470	-.10620	-.04060	868.90000
2.002	3.425	-.01010	.01040	-.01660	.00620	-.15360	-.11110	-.15260	-.10350	-.04910	868.90000
2.002	5.543	-.00920	-.00820	-.02280	-.03100	-.14930	-.10900	-.14670	-.10230	-.03750	868.90000
2.002	7.611	-.00950	-.02760	-.02900	-.03650	-.14400	-.10690	-.14110	-.09950	-.06630	868.90000
2.002	9.699	-.00790	-.04440	-.03460	-.07900	-.13200	-.09750	-.13370	-.09650	-.07640	868.90000
2.002	12.830	-.00740	-.06630	-.04280	-.11910	-.13210	-.09750	-.12950	-.09270	-.09350	868.90000
2.002	15.990	-.00720	-.08840	-.05100	-.13930	-.12850	-.09390	-.12550	-.08390	-.11740	868.90000
2.002	19.140	-.00150	-.10870	-.05820	-.16700	-.12240	-.08190	-.12050	-.08230	-.14330	868.90000
2.002	22.320	.00060	-.13240	-.06670	-.19910	-.11410	-.06600	-.11240	-.06830	-.17010	868.90000
2.002	25.480	.00260	-.15550	-.07370	-.22920	-.10040	-.04780	-.10130	-.04950	-.19700	868.90000
2.002	29.470	.00820	-.16900	-.07960	-.24870	-.07390	-.02630	-.07940	-.02900	-.23040	868.90000
GRADIENT		.00032	-.00811	-.00373	-.01187	.00162	.00126	.00133	.00122	-.00359	.00000

ARC 07-747 Q4338 B C M F M1 V LOW RM/L

(06K010) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 90.FT. HMRP = 32.3010 IM.
LREF = 14.2440 IM. YMRP = .0000 IM.
BREF = 26.1004 IM. ZMRP = 11.2300 IM.
SCALE = .0300 SCALE

BETA = .000 ELEVOM = -20.000
AILROM = .000 BOFLAP = -11.700
SPDRBK = 35.000 RUDDER = .000
ELEV-L = -20.000 ELEV-R = -20.000

PARAMETRIC DATA

RUN NO. 37/ 0 RM/L = 1.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHP	CHCI	CHCO	CHCT	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.601	-1.475	.01100	.27070	.04420	.31490	-.17320	-.12840	-.17840	-.13410	.03640	254.30000
1.601	-.204	.01060	.26080	.03780	.29820	-.17130	-.12740	-.17700	-.13230	.03420	254.30000
1.601	1.319	.01010	.24420	.03120	.27540	-.16900	-.12450	-.17370	-.12990	.02960	254.30000
1.601	3.340	.00710	.22340	.02320	.24860	-.16350	-.12230	-.16610	-.12680	.02730	254.30000
1.601	5.370	.01050	.19700	.01740	.21440	-.15490	-.11860	-.15970	-.12420	.02340	254.30000
1.601	7.395	.01110	.17200	.01360	.18550	-.15030	-.11620	-.15330	-.12230	.01860	254.30000
1.601	9.425	.01460	.14440	.01100	.15540	-.14430	-.11240	-.15090	-.12040	.01070	254.30000
1.601	11.450	.01390	.11700	.00720	.12420	-.14110	-.11100	-.14760	-.11820	-.00050	254.30000
1.601	15.510	.01450	.09340	.00220	.09720	-.13430	-.10780	-.14140	-.11560	-.02110	254.30000
1.601	18.560	.01090	.03350	.00750	.02560	-.12700	-.10130	-.13300	-.10620	-.03770	254.30000
1.601	21.600	.01050	.01220	.00340	.00710	-.12250	-.09820	-.12910	-.09990	-.05810	254.30000
1.601	24.650	.00840	.01670	.00370	.00380	-.12640	-.09170	-.13340	-.09320	-.07330	254.30000
1.601	28.480	.01350	-.02920	-.00250	.00010	-.12070	-.07750	-.13600	-.07560	-.09590	254.30000
GRADIENT		-.00560	-.00594	-.00353	-.01387	.00200	.00133	.00258	.00152	-.00193	.00000

RUN NO. 38/ 0 RM/L = 1.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHP	CHCI	CHCO	CHCT	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.003	-1.460	.00490	.20440	.03990	.24430	-.15950	-.11450	-.16110	-.12190	.01340	197.40000
2.003	-.199	.00760	.19340	.03480	.22770	-.15460	-.11760	-.16100	-.11870	.01160	197.40000
2.003	1.314	.00730	.17900	.02670	.20570	-.15280	-.11590	-.15890	-.11730	.00960	197.40000
2.003	3.331	.00300	.15710	.01920	.17200	-.15120	-.11160	-.15410	-.11370	.00900	197.40000
2.003	5.348	.00700	.12240	.01430	.13710	-.14390	-.10350	-.14890	-.11160	.00930	197.40000
2.003	7.368	.00660	.09380	.01230	.10470	-.13940	-.10060	-.14370	-.10350	.00920	197.40000
2.003	9.387	.00930	.07370	.00760	.08130	-.13400	-.10070	-.13930	-.10420	-.00360	197.40000
2.003	12.410	.00900	.04700	.00440	.05910	-.12750	-.10720	-.13280	-.10350	-.01990	197.40000
2.003	15.450	.00500	.04270	.00160	.04110	-.12420	-.10640	-.12950	-.10340	-.03410	197.40000
2.003	18.460	.00650	.01690	.00000	.01980	-.11980	-.09320	-.12360	-.09180	-.04960	197.40000
2.003	21.510	.00450	-.00310	-.00400	-.01950	-.11410	-.07890	-.11890	-.07860	-.06700	197.40000
2.003	24.540	.00740	-.02590	-.01920	-.04400	-.10300	-.06150	-.10880	-.06260	-.08670	197.40000
2.003	28.350	.00150	-.04420	-.00260	-.06710	-.07730	-.04520	-.08230	-.04270	-.10230	197.40000
GRADIENT		-.00006	-.01066	-.00436	-.01372	.00162	.00145	.00151	.00163	-.00093	.00000

ABC 97-747 Q4338 B C M F W V NOM. RM/L

(BEX019) (12 MAR 74)

REFERENCE DATA

REF = 2.4215 38.FT. YMRP = 32.3010 IN.
LREF = 14.2445 IN. YMRP = .0005 IN.
BREF = 28.1004 IN. ZMRP = 11.2550 IN.
SCALE = .0305 SCALE

BETA = .000 ELEVOM = -80.000
AIRLOM = .000 BDFLAP = -11.700
SPDRK = 55.000 PUDDER = .000
ELEV-L = -20.000 ELEV-R = -20.000

PARAMETRIC DATA

RUN NO. 42/ 0 RM/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.001	-1.511	-0.0400	.27800	.05290	.33080	-1.0720	-1.1330	-1.0720	-1.1310	.03600	806.40000
1.001	-2.19	-0.0370	.26780	.04590	.31370	-1.0580	-1.1330	-1.0580	-1.13010	.03480	806.40000
1.001	1.342	-0.0470	.25590	.03970	.29560	-1.0410	-1.1350	-1.0290	-1.12800	.03220	806.40000
1.001	3.409	-0.0370	.23480	.03360	.26840	-1.1780	-1.1260	-1.1740	-1.12530	.02880	806.40000
1.001	5.478	-0.0320	.21010	.02630	.23640	-1.1720	-1.1240	-1.1700	-1.12190	.02310	806.40000
1.001	7.545	-0.0340	.19070	.01850	.20910	-1.16710	-1.12100	-1.16490	-1.11870	.01680	806.40000
1.001	9.615	-0.0360	.15860	.01660	.17520	-1.16040	-1.11740	-1.15880	-1.11520	.00990	806.40000
1.001	12.730	-0.0490	.11030	.00800	.11830	-1.15540	-1.11500	-1.15280	-1.11330	-.00930	806.40000
1.001	15.830	-0.0440	.06030	-.00170	.06650	-1.15010	-1.11390	-1.14760	-1.11190	-.02370	806.40000
1.001	18.950	-0.0620	.03180	-.00800	.02380	-1.14010	-1.11090	-1.13840	-1.10640	-.04050	806.40000
1.001	22.070	-0.0845	.01050	-.01450	-.00400	-1.13620	-1.10550	-1.13370	-.09460	-.05840	806.40000
1.001	25.190	-0.0260	-.02500	-.01980	-.03980	-1.13370	-.09010	-1.13240	-.02880	-.07550	806.40000
1.001	29.090	-0.1170	-.02740	-.02020	-.04770	-1.12950	-.07950	-1.12440	-.07270	-.09440	806.40000
GRADIENT		.00001	-.00873	-.00387	-.01259	.00175	.00149	.00202	.00126	-.00150	.00000

RUN NO. 39/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.003	-1.502	-0.00750	.20370	.05680	.28190	-1.15780	-1.11800	-1.15430	-1.11400	.01930	565.90000
2.003	-1.220	-0.00780	.19580	.05150	.24720	-1.15870	-1.11660	-1.15350	-1.11220	.01810	565.90000
2.003	1.328	-0.00730	.18330	.04580	.22880	-1.15300	-1.11470	-1.15100	-1.11020	.01610	565.90000
2.003	3.383	-0.0610	.16000	.03760	.20360	-1.14930	-1.11190	-1.14750	-1.10770	.01260	565.90000
2.003	5.435	-0.0590	.14080	.03270	.17350	-1.14460	-1.11020	-1.14320	-1.10376	.00800	565.90000
2.003	7.490	-0.0370	.11770	.02640	.14410	-1.13870	-1.10690	-1.13820	-1.10370	.00150	565.90000
2.003	9.550	-0.0330	.09160	.01965	.11110	-1.13370	-1.10340	-1.13300	-1.10040	-.00610	565.90000
2.003	12.640	-0.0300	.06630	.01100	.07730	-1.12650	-.09840	-1.12580	-.09600	-.01800	565.90000
2.003	15.740	-0.0200	.04590	.00160	.04750	-1.12190	-.09430	-1.12120	-.09310	-.03380	565.90000
2.003	18.840	.00380	.01830	-.00660	.01170	-1.11820	-.08280	-1.11770	-.08720	-.04920	565.90000
2.003	21.940	.00620	-.00700	-.01350	-.02040	-1.11130	-.06920	-1.11150	-.07310	-.06590	565.90000
2.003	25.040	.00730	-.03060	-.01830	-.04890	-.09810	-.05160	-1.10130	-.05560	-.08540	565.90000
2.003	28.930	.00700	-.04200	-.02220	-.06400	-.07020	-.02890	-1.07980	-.05040	-.10380	565.90000
GRADIENT		.00029	-.00814	-.00381	-.01195	.00178	.00125	.00144	.00129	-.00138	.00000

ARC 87-747 04538 B C M P W1 V HIGH RM/L

(08X020) (12 MAR 74)

REFERENCE DATA

REF = 2.4218 86.FT. ZMRP = 32.3010 IM.
 LREF = 14.2440 IM. YMRP = .0000 IM.
 BREF = 26.1094 IM. ZMRP = 11.2500 IM.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -20.000
 AILRON = .000 BDFLAP = -11.700
 SPOBRK = 55.000 RUDDER = .000
 ELEV-R = -20.000 ELEV-L = -20.000

RUN NO. 41/ 9 RM/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMP	CHEI	CHEO	CHEZ	CHUL	CHUL	CHUR	CHLR	CHBF	Q
1.601	-1.338	-.00410	.27210	.04580	.31790	-.17870	-.13020	-.17860	-.12620	.03360	911.10000
1.601	-.818	-.00390	.25980	.05910	.29900	-.17750	-.12870	-.17750	-.12480	.03160	911.10000
1.601	1.365	-.00350	.24700	.03280	.27950	-.17540	-.12630	-.17540	-.12280	.03050	911.10000
1.601	3.470	-.00330	.22870	.02700	.25370	-.17160	-.12310	-.17150	-.12000	.02720	911.10000
1.601	5.573	-.00280	.20620	.02310	.22930	-.16720	-.12000	-.16700	-.11740	.02230	911.10000
1.601	7.681	-.00220	.18350	.02010	.20360	-.16160	-.11650	-.16190	-.11410	.01940	911.10000
1.601	9.784	-.0025	.13410	.01820	.15230	-.15700	-.11380	-.15710	-.11120	.01440	911.10000
1.601	12.860	-.00370	.10770	.00810	.11590	-.15240	-.11210	-.15170	-.10990	-.00990	911.10000
1.601	16.130	-.00120	.05570	-.00130	.05850	-.14840	-.10980	-.14660	-.10850	-.02750	911.10000
1.601	19.310	-.00700	.03280	-.00830	.03450	-.13800	-.10580	-.13650	-.10020	-.04260	911.10000
1.601	22.490	-.00850	.00770	-.01540	-.00780	-.13830	-.09530	-.13340	-.09040	-.06040	911.10000
1.601	25.690	-.00350	-.00310	-.02030	-.04240	-.13450	-.08620	-.13280	-.08380	-.07710	911.10000
1.601	29.850	-.00770	-.00270	-.00030	-.00330	-.11940	-.07280	-.11800	-.06430	-.05620	911.10000
GRADIENT		.00017	-.00593	-.00073	-.01273	.00143	.00143	.00143	.00129	-.00120	.00000

RUN NO. 40/ 0 RM/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMP	CHEI	CHEO	CHEZ	CHUL	CHUL	CHUR	CHLR	CHBF	Q
2.003	-1.338	-.01180	.20240	.04980	.23190	-.16080	-.11810	-.15820	-.11580	.01980	872.90000
2.003	-.830	-.01150	.19260	.04370	.21650	-.15910	-.11680	-.15120	-.10980	.01840	872.90000
2.003	1.338	-.01120	.17910	.03810	.21720	-.15670	-.11500	-.15020	-.10730	.01650	872.90000
2.003	3.420	-.01030	.15840	.03040	.18890	-.15320	-.11240	-.14530	-.10590	.01260	872.90000
2.003	5.506	-.00940	.13590	.02650	.15650	-.14890	-.11040	-.14350	-.10230	.00670	872.90000
2.003	7.601	-.00940	.10310	.02230	.12760	-.14420	-.10730	-.14180	-.10030	-.00010	872.90000
2.003	9.697	-.00820	.06370	.01910	.10180	-.13860	-.10430	-.13560	-.09770	-.00640	872.90000
2.003	12.840	-.00860	.02220	.01080	.07300	-.13200	-.09900	-.13000	-.09370	-.01900	872.90000
2.003	16.000	-.00670	.04360	.00310	.04870	-.12840	-.09560	-.12530	-.09540	-.03420	872.90000
2.003	19.150	-.00220	.01570	-.00140	.01030	-.12310	-.08420	-.12120	-.08390	-.04350	872.90000
2.003	22.310	-.00170	-.00080	-.01340	-.00230	-.11980	-.06680	-.11490	-.07150	-.06740	872.90000
2.003	25.470	.00520	-.03140	-.01870	-.00110	-.10500	-.04820	-.10150	-.06190	-.08000	872.90000
2.003	29.420	.00770	-.00400	-.02160	-.00160	-.07130	-.02660	-.07310	-.03040	-.10280	872.90000
GRADIENT		.00030	-.00892	-.00033	-.01273	.00143	.00116	.00121	.00114	-.00145	.00000

ARC 97-747 04538 B C M F W1 V MON. RM/L

(BEK021) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 50.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 20.1554 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

BETA = .000 ELEVON 2 = -10.000
 AIRLON = 10.000 BCFLAP = -11.700
 SPOBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = -20.000

PARAMETRIC DATA

RUN NO. 44/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHEI	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.000	-1.551	-0.0050	.27490	.05290	.32780	-1.0110	-1.13040	-1.17970	-1.12890	.03080	590.10000
1.000	-1.196	-0.0120	.26370	.04610	.31190	-1.17960	-1.12770	-1.17900	-1.12700	.02860	590.10000
1.000	1.377	-0.0200	.25470	.03910	.29380	-1.17690	-1.12500	-1.17570	-1.12420	.02500	590.10000
1.000	5.411	-0.0160	.23660	.03420	.27080	-1.17260	-1.12120	-1.17100	-1.12120	.02150	590.10000
1.000	5.494	-0.0210	.21150	.02590	.23690	-1.16730	-1.11810	-1.16530	-1.11800	.01550	590.10000
1.000	7.532	-0.0170	.19170	.01840	.21010	-1.16130	-1.11470	-1.15950	-1.11480	.00850	590.10000
1.000	9.614	-0.0150	.16090	.01690	.17780	-1.15650	-1.11130	-1.15470	-1.11150	-.00010	590.10000
1.000	12.710	-0.0210	.11350	.00830	.12190	-1.15120	-1.10880	-1.14950	-1.10900	-.01510	590.10000
1.000	15.820	-0.0180	.06090	-.00140	.05960	-1.14750	-1.10750	-1.14550	-1.10770	-.02370	590.10000
1.000	18.930	-0.0340	.03220	-.00780	.02440	-1.13930	-1.10430	-1.13750	-1.10270	-.04670	590.10000
1.000	22.050	-0.0410	.01030	-.01410	-.00380	-1.13670	-.09500	-1.13480	-.09260	-.06290	590.10000
1.000	25.170	.00290	-.01990	-.01970	-.03950	-1.13330	-.08460	-1.13290	-.08790	-.08070	590.10000
1.000	29.070	-.01610	-.02710	-.02040	-.04730	-1.13990	-.08050	-1.13100	-.07330	-.10460	590.10000
GRADIENT		.00019	-.00770	-.00378	-.01148	.00173	.00184	.00182	.00157	-.00191	.00000

RUN NO. 43/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHEI	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-1.537	-0.0630	.20310	.05700	.26220	-1.15730	-1.11260	-1.15360	-1.11000	.01690	583.10000
2.002	-1.215	-0.0680	.19380	.04670	.24030	-1.15580	-1.11150	-1.15220	-1.10830	.01500	583.10000
2.002	1.327	-0.0640	.18260	.04370	.22630	-1.15260	-1.10930	-1.14930	-1.10640	.01220	583.10000
2.002	3.391	-0.0540	.16460	.03870	.20330	-1.14870	-1.10630	-1.14570	-1.10390	.00710	583.10000
2.002	5.451	-0.0480	.14110	.03340	.17450	-1.14400	-1.10430	-1.14140	-1.10200	.00190	583.10000
2.002	7.497	-0.0360	.11660	.02660	.14310	-1.13830	-1.10140	-1.13640	-.09970	-.00390	583.10000
2.002	9.563	-0.0280	.09090	.01920	.11020	-1.13260	-.09750	-1.13060	-.09670	-.01510	583.10000
2.002	12.450	-0.0150	.06590	.01070	.07660	-1.12620	-.09230	-1.12460	-.09240	-.02120	583.10000
2.002	15.740	-0.0120	.04570	.00160	.04730	-1.12180	-.08880	-1.11990	-.08950	-.03770	583.10000
2.002	18.840	-.00350	.01600	-.00840	.01160	-1.11620	-.07630	-1.11500	-.08300	-.05370	583.10000
2.002	21.940	.00750	-.00740	-.01310	-.02050	-1.10740	-.06160	-1.10750	-.05940	-.07050	583.10000
2.002	25.040	.00730	-.02930	-.01840	-.04750	-.09470	-.04630	-.09790	-.09350	-.09080	583.10000
2.002	28.910	.00540	-.04110	-.02210	-.06320	-.07260	-.02330	-.07660	-.02690	-.11050	583.10000
GRADIENT		.00021	-.00814	-.00336	-.01132	.00178	.00130	.00164	.00124	-.00200	.00000

ARC 97-747 04330 B C M F M1 V MOM. RM/L

(0EX022) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 98.FT. YMRP = 32.3010 IM.
 LREF = 14.2440 IM. YMRP = .0000 IM.
 BREF = 28.1004 IM. YMRP = 11.2300 IM.
 SCALL = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = -20.000
 AIRLON = 20.000 BDFLAP = -11.700
 SPDRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = -40.000

RUN NO. 46/ 0 RM/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHM	CHM1	CHM2	CHM3	CHM4	CHM5	CHM6	CHM7	CHM8	CHM9	CHM10	CHM11	CHM12	CHM13	CHM14	CHM15	CHM16	CHM17	CHM18	CHM19	CHM20	CHM21	CHM22	CHM23	CHM24	CHM25	CHM26	CHM27	CHM28	CHM29	CHM30	CHM31	CHM32	CHM33	CHM34	CHM35	CHM36	CHM37	CHM38	CHM39	CHM40	CHM41	CHM42	CHM43	CHM44	CHM45	CHM46	CHM47	CHM48	CHM49	CHM50	CHM51	CHM52	CHM53	CHM54	CHM55	CHM56	CHM57	CHM58	CHM59	CHM60	CHM61	CHM62	CHM63	CHM64	CHM65	CHM66	CHM67	CHM68	CHM69	CHM70	CHM71	CHM72	CHM73	CHM74	CHM75	CHM76	CHM77	CHM78	CHM79	CHM80	CHM81	CHM82	CHM83	CHM84	CHM85	CHM86	CHM87	CHM88	CHM89	CHM90	CHM91	CHM92	CHM93	CHM94	CHM95	CHM96	CHM97	CHM98	CHM99	CHM100	CHM101	CHM102	CHM103	CHM104	CHM105	CHM106	CHM107	CHM108	CHM109	CHM110	CHM111	CHM112	CHM113	CHM114	CHM115	CHM116	CHM117	CHM118	CHM119	CHM120	CHM121	CHM122	CHM123	CHM124	CHM125	CHM126	CHM127	CHM128	CHM129	CHM130	CHM131	CHM132	CHM133	CHM134	CHM135	CHM136	CHM137	CHM138	CHM139	CHM140	CHM141	CHM142	CHM143	CHM144	CHM145	CHM146	CHM147	CHM148	CHM149	CHM150	CHM151	CHM152	CHM153	CHM154	CHM155	CHM156	CHM157	CHM158	CHM159	CHM160	CHM161	CHM162	CHM163	CHM164	CHM165	CHM166	CHM167	CHM168	CHM169	CHM170	CHM171	CHM172	CHM173	CHM174	CHM175	CHM176	CHM177	CHM178	CHM179	CHM180	CHM181	CHM182	CHM183	CHM184	CHM185	CHM186	CHM187	CHM188	CHM189	CHM190	CHM191	CHM192	CHM193	CHM194	CHM195	CHM196	CHM197	CHM198	CHM199	CHM200	CHM201	CHM202	CHM203	CHM204	CHM205	CHM206	CHM207	CHM208	CHM209	CHM210	CHM211	CHM212	CHM213	CHM214	CHM215	CHM216	CHM217	CHM218	CHM219	CHM220	CHM221	CHM222	CHM223	CHM224	CHM225	CHM226	CHM227	CHM228	CHM229	CHM230	CHM231	CHM232	CHM233	CHM234	CHM235	CHM236	CHM237	CHM238	CHM239	CHM240	CHM241	CHM242	CHM243	CHM244	CHM245	CHM246	CHM247	CHM248	CHM249	CHM250	CHM251	CHM252	CHM253	CHM254	CHM255	CHM256	CHM257	CHM258	CHM259	CHM260	CHM261	CHM262	CHM263	CHM264	CHM265	CHM266	CHM267	CHM268	CHM269	CHM270	CHM271	CHM272	CHM273	CHM274	CHM275	CHM276	CHM277	CHM278	CHM279	CHM280	CHM281	CHM282	CHM283	CHM284	CHM285	CHM286	CHM287	CHM288	CHM289	CHM290	CHM291	CHM292	CHM293	CHM294	CHM295	CHM296	CHM297	CHM298	CHM299	CHM300	CHM301	CHM302	CHM303	CHM304	CHM305	CHM306	CHM307	CHM308	CHM309	CHM310	CHM311	CHM312	CHM313	CHM314	CHM315	CHM316	CHM317	CHM318	CHM319	CHM320	CHM321	CHM322	CHM323	CHM324	CHM325	CHM326	CHM327	CHM328	CHM329	CHM330	CHM331	CHM332	CHM333	CHM334	CHM335	CHM336	CHM337	CHM338	CHM339	CHM340	CHM341	CHM342	CHM343	CHM344	CHM345	CHM346	CHM347	CHM348	CHM349	CHM350	CHM351	CHM352	CHM353	CHM354	CHM355	CHM356	CHM357	CHM358	CHM359	CHM360	CHM361	CHM362	CHM363	CHM364	CHM365	CHM366	CHM367	CHM368	CHM369	CHM370	CHM371	CHM372	CHM373	CHM374	CHM375	CHM376	CHM377	CHM378	CHM379	CHM380	CHM381	CHM382	CHM383	CHM384	CHM385	CHM386	CHM387	CHM388	CHM389	CHM390	CHM391	CHM392	CHM393	CHM394	CHM395	CHM396	CHM397	CHM398	CHM399	CHM400	CHM401	CHM402	CHM403	CHM404	CHM405	CHM406	CHM407	CHM408	CHM409	CHM410	CHM411	CHM412	CHM413	CHM414	CHM415	CHM416	CHM417	CHM418	CHM419	CHM420	CHM421	CHM422	CHM423	CHM424	CHM425	CHM426	CHM427	CHM428	CHM429	CHM430	CHM431	CHM432	CHM433	CHM434	CHM435	CHM436	CHM437	CHM438	CHM439	CHM440	CHM441	CHM442	CHM443	CHM444	CHM445	CHM446	CHM447	CHM448	CHM449	CHM450	CHM451	CHM452	CHM453	CHM454	CHM455	CHM456	CHM457	CHM458	CHM459	CHM460	CHM461	CHM462	CHM463	CHM464	CHM465	CHM466	CHM467	CHM468	CHM469	CHM470	CHM471	CHM472	CHM473	CHM474	CHM475	CHM476	CHM477	CHM478	CHM479	CHM480	CHM481	CHM482	CHM483	CHM484	CHM485	CHM486	CHM487	CHM488	CHM489	CHM490	CHM491	CHM492	CHM493	CHM494	CHM495	CHM496	CHM497	CHM498	CHM499	CHM500	CHM501	CHM502	CHM503	CHM504	CHM505	CHM506	CHM507	CHM508	CHM509	CHM510	CHM511	CHM512	CHM513	CHM514	CHM515	CHM516	CHM517	CHM518	CHM519	CHM520	CHM521	CHM522	CHM523	CHM524	CHM525	CHM526	CHM527	CHM528	CHM529	CHM530	CHM531	CHM532	CHM533	CHM534	CHM535	CHM536	CHM537	CHM538	CHM539	CHM540	CHM541	CHM542	CHM543	CHM544	CHM545	CHM546	CHM547	CHM548	CHM549	CHM550	CHM551	CHM552	CHM553	CHM554	CHM555	CHM556	CHM557	CHM558	CHM559	CHM560	CHM561	CHM562	CHM563	CHM564	CHM565	CHM566	CHM567	CHM568	CHM569	CHM570	CHM571	CHM572	CHM573	CHM574	CHM575	CHM576	CHM577	CHM578	CHM579	CHM580	CHM581	CHM582	CHM583	CHM584	CHM585	CHM586	CHM587	CHM588	CHM589	CHM590	CHM591	CHM592	CHM593	CHM594	CHM595	CHM596	CHM597	CHM598	CHM599	CHM600	CHM601	CHM602	CHM603	CHM604	CHM605	CHM606	CHM607	CHM608	CHM609	CHM610	CHM611	CHM612	CHM613	CHM614	CHM615	CHM616	CHM617	CHM618	CHM619	CHM620	CHM621	CHM622	CHM623	CHM624	CHM625	CHM626	CHM627	CHM628	CHM629	CHM630	CHM631	CHM632	CHM633	CHM634	CHM635	CHM636	CHM637	CHM638	CHM639	CHM640	CHM641	CHM642	CHM643	CHM644	CHM645	CHM646	CHM647	CHM648	CHM649	CHM650	CHM651	CHM652	CHM653	CHM654	CHM655	CHM656	CHM657	CHM658	CHM659	CHM660	CHM661	CHM662	CHM663	CHM664	CHM665	CHM666	CHM667	CHM668	CHM669	CHM670	CHM671	CHM672	CHM673	CHM674	CHM675	CHM676	CHM677	CHM678	CHM679	CHM680	CHM681	CHM682	CHM683	CHM684	CHM685	CHM686	CHM687	CHM688	CHM689	CHM690	CHM691	CHM692	CHM693	CHM694	CHM695	CHM696	CHM697	CHM698	CHM699	CHM700	CHM701	CHM702	CHM703	CHM704	CHM705	CHM706	CHM707	CHM708	CHM709	CHM710	CHM711	CHM712	CHM713	CHM714	CHM715	CHM716	CHM717	CHM718	CHM719	CHM720	CHM721	CHM722	CHM723	CHM724	CHM725	CHM726	CHM727	CHM728	CHM729	CHM730	CHM731	CHM732	CHM733	CHM734	CHM735	CHM736	CHM737	CHM738	CHM739	CHM740	CHM741	CHM742	CHM743	CHM744	CHM745	CHM746	CHM747	CHM748	CHM749	CHM750	CHM751	CHM752	CHM753	CHM754	CHM755	CHM756	CHM757	CHM758	CHM759	CHM760	CHM761	CHM762	CHM763	CHM764	CHM765	CHM766	CHM767	CHM768	CHM769	CHM770	CHM771	CHM772	CHM773	CHM774	CHM775	CHM776	CHM777	CHM778	CHM779	CHM780	CHM781	CHM782	CHM783	CHM784	CHM785	CHM786	CHM787	CHM788	CHM789	CHM790	CHM791	CHM792	CHM793	CHM794	CHM795	CHM796	CHM797	CHM798	CHM799	CHM800	CHM801	CHM802	CHM803	CHM804	CHM805	CHM806	CHM807	CHM808	CHM809	CHM810	CHM811	CHM812	CHM813	CHM814	CHM815	CHM816	CHM817	CHM818	CHM819	CHM820	CHM821	CHM822	CHM823	CHM824	CHM825	CHM826	CHM827	CHM828	CHM829	CHM830	CHM831	CHM832	CHM833	CHM834	CHM835	CHM836	CHM837	CHM838	CHM839	CHM840	CHM841	CHM842	CHM843	CHM844	CHM845	CHM846	CHM847	CHM848	CHM849	CHM850	CHM851	CHM852	CHM853	CHM854	CHM855	CHM856	CHM857	CHM858	CHM859	CHM860	CHM861	CHM862	CHM863	CHM864	CHM865	CHM866	CHM867	CHM868	CHM869	CHM870	CHM871	CHM872	CHM873	CHM874	CHM875	CHM876	CHM877	CHM878	CHM879	CHM880	CHM881	CHM882	CHM883	CHM884	CHM885	CHM886	CHM887	CHM888	CHM889	CHM890	CHM891	CHM892	CHM893	CHM894	CHM895	CHM896	CHM897	CHM898	CHM899	CHM900	CHM901	CHM902	CHM903	CHM904	CHM905	CHM906	CHM907	CHM908	CHM909	CHM910	CHM911	CHM912	CHM913	CHM914	CHM915	CHM916	CHM917	CHM918	CHM919	CHM920	CHM921	CHM922	CHM923	CHM924	CHM925	CHM926	CHM927	CHM928	CHM929	CHM930	CHM931	CHM932	CHM933	CHM934	CHM935	CHM936	CHM937	CHM938	CHM939	CHM940	CHM941	CHM942	CHM943	CHM944	CHM945	CHM946	CHM947	CHM948	CHM949	CHM950	CHM951	CHM952	CHM953	CHM954	CHM955	CHM956	CHM957	CHM958	CHM959	CHM960	CHM961	CHM962	CHM963	CHM964	CHM965	CHM966	CHM967	CHM968	CHM969	CHM970	CHM971	CHM972	CHM973	CHM974	CHM975	CHM976	CHM977	CHM978	CHM979	CHM980	CHM981	CHM982	CHM983	CHM984	CHM985	CHM986	CHM987	CHM988	CHM989	CHM990	CHM991	CHM992	CHM993	CHM994	CHM995	CHM996	CHM997	CHM998	CHM999	CHM1000
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RUN NO. 45/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHM	CHM1	CHM2	CHM3	CHM4	CHM5	CHM6	CHM7	CHM8	CHM9	CHM10	CHM11	CHM12	CHM13	CHM14	CHM15	CHM16	CHM17	CHM18	CHM19	CHM20	CHM21	CHM22	CHM23	CHM24	CHM25	CHM26	CHM27	CHM28	CHM29	CHM30	CHM31	CHM32	CHM33	CHM34	CHM35	CHM36	CHM37	CHM38	CHM39	CHM40	CHM41	CHM42	CHM43	CHM44	CHM45	CHM46	CHM47	CHM48	CHM49	CHM50	CHM51	CHM52	CHM53	CHM54	CHM55	CHM56	CHM57	CHM58	CHM59	CHM60	CHM61	CHM62	CHM63	CHM64	CHM65	CHM66	CHM67	CHM68	CHM69	CHM70
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DATE 16 JUL 74

TABULATED SOURCE DATA - QAS38

PAGE 123

ARC 97-747 QAS38 B C M F W1 V MOM. RM/L

(08K023) (12 MAR 74)

REFERENCE DATA

BREF = 2.4215 98.87. YMEP = 32.3010 IM.
 LREF = 14.2445 IM. YMEP = .5005 IM.
 BREF = 28.1924 IM. YMEP = 11.2750 IM.
 SCALE = .5355 SCALE

BETA = .000 ELEVOM = -20.000
 AILROM = .000 BOFLAP = -11.700
 SPDRK = 95.000 RUDDER = .000
 ELEV-L = -40.000 ELEV-R = -40.000

PARAMETRIC DATA

RUN NO. 46/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWR	CMEI	CWEO	CNET	CHUL	CHLL	CHUR	CHLR	CMRF	Q
1.000	-1.536	.00280	.42550	.07120	.49160	-.19620	-.15260	-1.9810	-.15360	.03170	588.60000
1.000	-.239	.00470	.41730	.06260	.47990	-.19490	-.14770	-.19670	-.15040	.03100	588.60000
1.000	1.315	.00330	.40340	.05380	.45910	-.19190	-.14230	-.19440	-.14510	.02850	588.60000
1.000	3.305	.00640	.38960	.04360	.42750	-.18520	-.13540	-.18750	-.13950	.02290	588.60000
1.000	5.457	.00730	.38650	.03690	.37290	-.17770	-.12870	-.17980	-.13390	.01785	588.60000
1.000	7.521	.00960	.29490	.02610	.32090	-.16830	-.11820	-.17060	-.12520	.01320	588.60000
1.000	9.509	.02290	.24220	.02370	.26590	-.15050	-.10440	-.16930	-.11750	.00590	588.60000
1.000	12.690	.00505	.19270	.01620	.20890	-.14660	-.10340	-.15010	-.11260	-.00680	588.60000
1.000	15.815	.01040	.15290	.01120	.16410	-.14490	-.10370	-.14830	-.11070	-.01840	588.60000
1.000	18.920	.01340	.12450	.01040	.13440	-.14170	-.10320	-.14700	-.11130	-.03620	588.60000
1.000	22.040	.01570	.09710	.00880	.10390	-.14200	-.09730	-.14680	-.10320	-.05750	588.60000
1.000	25.160	.00740	.06660	.00720	.07300	-.14470	-.09060	-.14910	-.09360	-.07120	588.60000
1.000	28.050	.01980	.04520	.00620	.04640	-.12620	-.07320	-.14530	-.07590	-.09340	588.60000
GRADIENT		.00068	-.00770	-.00557	-.01326	.00226	.00346	.00215	.00292	-.00182	.00000

RUN NO. 47/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CWR	CMEI	CWEO	CNET	CHUL	CHLL	CHUR	CHLR	CMRF	Q
2.002	-1.524	-.00990	.33580	.06170	.39750	-.16080	-.10780	-.15580	-.10300	.02070	567.40000
2.002	-.236	-.00890	.32860	.05500	.38360	-.15860	-.10640	-.15470	-.10170	.01840	567.40000
2.002	1.311	-.00740	.31130	.04780	.35910	-.15620	-.10340	-.15290	-.10130	.01320	567.40000
2.002	3.363	-.00660	.29270	.03540	.32830	-.15110	-.10330	-.14900	-.09880	.01100	567.40000
2.002	5.424	-.00610	.25230	.02740	.27970	-.14710	-.10220	-.14540	-.09780	.00410	567.40000
2.002	7.473	-.00430	.18280	.02870	.21140	-.14290	-.10020	-.14170	-.09720	-.00450	567.40000
2.002	9.535	-.00315	.15970	.02510	.18480	-.13620	-.09750	-.13730	-.09490	-.01080	567.40000
2.002	12.630	-.00310	.10580	.02910	.15490	-.13090	-.09270	-.12980	-.09070	-.01820	567.40000
2.002	15.730	-.00300	.08370	.00510	.10370	-.12740	-.08920	-.12560	-.08790	-.03370	567.40000
2.002	18.830	.00470	.06950	.00930	.07860	-.12150	-.07680	-.12140	-.08160	-.05000	567.40000
2.002	21.930	.00350	.04420	.00620	.05030	-.11660	-.06300	-.11590	-.06920	-.06940	567.40000
2.002	25.030	.00260	.02400	.00410	.03030	-.10290	-.04910	-.10460	-.05000	-.08450	567.40000
2.002	28.930	.00260	.01330	.00300	.01640	-.07650	-.02810	-.08050	-.02470	-.10870	567.40000
GRADIENT		.00069	-.00910	-.00534	-.01446	.00196	.00091	.00140	.00081	-.00200	.00000

ARC 97-747 Q4330 S C N P W V MOM. RM/L

(SEK024) (12 MAR 74)

REFERENCE DATA

REF = 2.4210 24.71. ZMRP = 32.3010 IM.
 LREF = 14.2440 IM. YMRP = .0000 IM.
 BREF = 29.1004 IM. ZMRP = 11.2300 IM.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AILROM = .000 BDFLAP = -11.700
 SPDGRK = 25.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 56/ 0 RM/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMR	CMEI	CHEO	CMET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.000	-1.534	-.00310	-.01920	.00140	.00070	-.00410	-.03700	-.07970	-.03720	.01660	598.10000
1.000	-.807	-.00380	.00780	-.00440	.00340	-.00300	-.03700	-.07980	-.03640	.01670	598.10000
1.000	1.345	-.00420	.00310	-.01140	.04170	-.00180	-.05600	-.07820	-.03340	.01500	598.10000
1.000	3.417	-.00400	.00410	-.02010	.01400	-.07930	-.03460	-.07390	-.03410	.01100	598.10000
1.000	5.471	-.00250	.01440	-.02950	-.01510	-.07640	-.03290	-.07340	-.03340	.00610	598.10000
1.000	7.546	-.00130	-.00740	-.03330	-.04270	-.07370	-.03160	-.07100	-.03300	-.00130	598.10000
1.000	8.575	-.00150	-.01650	-.03800	-.05430	-.07270	-.03090	-.07000	-.03210	-.00650	598.10000
1.000	12.710	-.00110	-.06330	-.04900	-.11290	-.06890	-.04860	-.06610	-.03020	-.02570	598.10000
1.000	15.820	-.00240	-.09720	-.06010	-.15710	-.06570	-.04680	-.06230	-.04730	-.04050	598.10000
1.000	18.960	-.00310	-.13110	-.08620	-.19930	-.06270	-.04550	-.06260	-.04730	-.04360	598.10000
1.000	22.080	-.00680	-.15390	-.07540	-.23140	-.06370	-.04170	-.06030	-.03820	-.06230	598.10000
1.000	25.170	-.0120	-.17600	-.08220	-.26230	-.05840	-.03650	-.05730	-.03640	-.06510	598.10000
1.000	29.080	-.01680	-.18580	-.08660	-.27250	-.05910	-.02830	-.05360	-.02490	-.11790	598.10000
GRADIENT		.00516	-.00915	-.00435	-.01352	.00096	.00266	.00282	.00063	-.00151	.00000

RUN NO. 49/ 0 RM/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMR	CMEI	CHEO	CMET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-1.548	-.00310	.00180	.00190	.00370	-.07110	-.03180	-.06700	-.05080	.00850	570.60000
2.002	-.816	-.00350	.04080	-.00130	.03750	-.07010	-.03160	-.06370	-.05040	.00620	570.60000
2.002	1.325	-.00420	.02760	-.00320	.01810	-.06750	-.03530	-.06430	-.04960	.00310	570.60000
2.002	3.383	-.00310	.01070	-.01730	-.00870	-.06530	-.04390	-.06200	-.04860	-.00220	570.60000
2.002	5.438	-.00320	-.00860	-.02420	-.03280	-.06400	-.04920	-.06030	-.04760	-.00530	570.60000
2.002	7.488	-.00410	-.02710	-.03030	-.03750	-.06140	-.04760	-.05840	-.04650	-.01240	570.60000
2.002	9.551	-.00390	-.04420	-.03570	-.07970	-.06010	-.04600	-.05720	-.04510	-.01870	570.60000
2.002	12.640	-.00230	-.06850	-.04420	-.11270	-.05720	-.04240	-.05320	-.04220	-.02310	570.60000
2.002	14.700	-.00230	-.08230	-.04940	-.13160	-.05570	-.04240	-.05350	-.04240	-.03630	570.60000
2.002	16.740	-.00070	-.09000	-.05070	-.14580	-.05480	-.03830	-.05350	-.03940	-.04120	570.60000
2.002	18.840	.00130	-.11050	-.05850	-.16890	-.05200	-.03090	-.05310	-.03470	-.03350	570.60000
2.002	21.940	.00110	-.13330	-.06660	-.19990	-.04990	-.02320	-.04860	-.02760	-.07220	570.60000
2.002	25.040	.00050	-.15750	-.07460	-.23160	-.04330	-.01850	-.04590	-.01840	-.00380	570.60000
2.002	28.910	.00070	-.17380	-.08100	-.25480	-.03420	-.00760	-.03650	-.00410	-.11860	570.60000
GRADIENT		.00507	-.00835	-.00189	-.01227	.00111	.00041	.00101	.00046	-.00210	.00000

DATE 18 JUL 74 TABULATED SOURCE DATA - 04538

ARC 97-747 04538 B C M 7 W1 V MOM. RM/L (CEK023) (12 MAR 74)

REFERENCE DATA

REF = 8.4210 38.FT. XMRP = 32.3010 IN. ALPHA = .000 ELEVOM = .000
 LREF = 14.2440 IN. YMRP = .0000 IN. AILROM = .000 BOFLAP = -11.700
 BREF = 28.1554 IN. ZMRP = 11.2500 IN. SPDRK = 23.000 RUCCER = .000
 SCALE = .0000 SCALE ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 55/ 0 R/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CMEI	CHEO	CMET	CHUL	CHLL	CHUR	CHLR	CMBF
1.000	-3.182	-.07580	.03970	-.00400	.05570	-.10970	-.07730	-.06890	-.04240	.01080
1.000	-3.101	-.04700	.06330	-.00390	.05940	-.09840	-.06960	-.07200	-.04900	.01280
1.000	-1.034	-.01690	.06560	-.00400	.06100	-.08720	-.06050	-.07640	-.03440	.01310
1.000	-.012	-.00280	.06830	-.00440	.05390	-.08180	-.03600	-.07790	-.03710	.01030
1.000	1.016	.01110	.07030	-.00410	.06620	-.07700	-.05170	-.08010	-.03970	.01280
1.000	3.285	.04080	.07440	-.00330	.07110	-.06690	-.04240	-.08470	-.08540	.01060
1.000	3.149	.06600	.07750	-.00190	.07580	-.03560	-.03300	-.08730	-.06930	.00980
1.000	5.985	.07670	.07870	-.00170	.07700	-.03020	-.03270	-.08930	-.07110	.00980
GRADIENT	.01414	.05180	.00012	.00012	.00192	.00508	.00439	-.00203	-.00264	.00003

RUN NO. 59/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CMEI	CHEO	CMET	CHUL	CHLL	CHUR	CHLR	CMBF
2.002	-3.340	-.08750	.03920	-.00610	.03320	-.10500	-.07160	-.05910	-.03000	.00180
2.002	-3.482	-.05830	.04070	-.00320	.03550	-.09130	-.06340	-.06050	-.03580	.00240
2.002	-1.417	-.02380	.04170	-.00410	.03760	-.07710	-.05420	-.06300	-.04450	.00550
2.002	-.376	-.00690	.04210	-.00330	.03880	-.07010	-.04940	-.06440	-.04820	.00660
2.002	.647	.01010	.04280	-.00270	.04010	-.06350	-.04460	-.06690	-.05130	.00540
2.002	2.708	.04390	.04660	-.00170	.04500	-.03320	-.03540	-.07330	-.05920	.00330
2.002	4.774	.07270	.05080	-.00020	.05060	-.04310	-.02780	-.07740	-.06620	.00190
2.002	5.815	.08830	.05280	.00060	.05340	-.03610	-.02440	-.07910	-.06970	.00140
GRADIENT	.01597	.00124	.00060	.00060	.00184	.00580	.00436	-.00217	-.00365	.00000

ARC 97-747 Q4338 B C M F W1 V MON. RN/L

(08X026) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 80.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 26.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

ALPHA = 10.000 ELEVON = .000
 AIRLON = .000 BDFLAP = -11.700
 SPOBRK = 25.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 54/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHEI	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.600	-5.041	-.06350	-.03670	-.04350	-.06020	-.09350	-.06560	-.05800	-.03770	-.01640	386.60000
1.600	-3.001	-.04460	-.03220	-.04200	-.07430	-.08600	-.06370	-.06100	-.04380	-.01680	596.60000
1.600	-.968	-.01660	-.03430	-.04240	-.07670	-.07430	-.03480	-.05420	-.04830	-.01480	596.60000
1.600	.036	-.00330	-.03370	-.04150	-.07530	-.06910	-.03060	-.06590	-.05050	-.01400	596.60000
1.600	1.041	.00970	-.03010	-.04120	-.07130	-.06450	-.04680	-.06790	-.05310	-.01420	596.60000
1.600	3.078	.04040	-.03510	-.04280	-.07790	-.05400	-.03850	-.07300	-.05990	-.01570	596.60000
1.600	5.107	.06150	-.03680	-.04460	-.08140	-.04360	-.03110	-.07490	-.06120	-.01570	596.60000
1.600	7.141	.09050	-.03250	-.04450	-.08290	-.03140	-.02160	-.07720	-.06630	-.01540	596.60000
1.600	7.545	.09640	-.03810	-.04440	-.08250	-.02780	-.01910	-.07760	-.06780	-.01460	596.60000
GRADIENT	.01391	-.00022	-.00006		-.00027	.00322	.00412	-.00196	-.00262	.00019	-.00000

RUN NO. 51/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHEI	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-5.433	-.06590	-.04420	-.03710	-.06130	-.08760	-.06020	-.05090	-.03110	-.02560	580.70000
2.002	-3.582	-.04970	-.04630	-.03650	-.08470	-.07970	-.05720	-.05200	-.03520	-.02420	580.70000
2.002	-1.360	-.01720	-.04800	-.03800	-.08650	-.06500	-.04930	-.05520	-.04190	-.02140	580.70000
2.002	-.348	-.00450	-.04920	-.03760	-.08680	-.06350	-.04520	-.05660	-.04460	-.02060	580.70000
2.002	.677	.00710	-.04920	-.03740	-.08670	-.05390	-.04110	-.05740	-.04680	-.02110	580.70000
2.002	2.702	.03780	-.04910	-.03650	-.08570	-.04630	-.03160	-.06150	-.05420	-.02230	580.70000
2.002	4.735	.06290	-.04670	-.03530	-.08200	-.03640	-.02480	-.06660	-.05760	-.02500	580.70000
2.002	6.766	.08940	-.04340	-.03480	-.07830	-.02470	-.01820	-.06880	-.06350	-.02790	580.70000
2.002	8.803	.11000	-.03670	-.03440	-.07110	-.01360	-.01620	-.07270	-.06700	-.03000	580.70000
GRADIENT	.01378	-.00006	.00039		.00031	.00316	.00407	-.00175	-.00281	-.00017	.00000

DATE 16 JUL 74

TABULATED SOURCE DATA - QAS3B

PAGE 127

ARC 97-747 OA'38 B C M F W1 V MOM. RN/L

(08E027) (12 MAR 74)

REFERENCE DATA

BRF = 2.4210 38.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRP = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

ALPHA = 20.000 ELEVOM = .000
 AILROM = .000 BDFLAP = -11.700
 SPBRK = 25.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 53/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHEY	CHUL	CHLL	CHUR	CHLR	CHRF	Q
1.000	-5.047	-0.0040	-0.14030	-0.07210	-0.21230	-0.07470	-0.03790	-0.04540	-0.03680	-0.03390	598.700000
1.000	-5.000	-0.02040	-0.14270	-0.07220	-0.21490	-0.06880	-0.03390	-0.04640	-0.03590	-0.03780	598.700000
1.000	-0.955	-0.01960	-0.14520	-0.07200	-0.21710	-0.06350	-0.03980	-0.04920	-0.03450	-0.03960	598.700000
1.000	0.064	-0.00600	-0.14300	-0.07190	-0.21490	-0.05420	-0.03560	-0.05000	-0.03380	-0.03810	598.700000
1.000	1.091	0.00690	-0.14150	-0.07220	-0.21360	-0.04730	-0.03390	-0.05270	-0.03540	-0.03740	598.700000
1.000	3.137	0.02710	-0.13920	-0.07110	-0.21040	-0.04030	-0.03190	-0.05990	-0.03000	-0.03850	598.700000
1.000	5.180	0.02690	-0.13380	-0.07170	-0.20540	-0.03430	-0.03010	-0.06080	-0.03050	-0.03510	598.700000
1.000	7.231	0.04150	-0.12510	-0.07230	-0.19740	-0.02470	-0.02790	-0.06190	-0.03220	-0.04850	598.700000
1.000	9.279	0.06440	-0.11500	-0.07150	-0.18650	-0.01380	-0.03080	-0.06420	-0.04680	-0.04690	598.700000
GRADIENT	0.00626	0.00069	0.00015	0.00083	0.00064	0.00497	0.00064	-0.00215	-0.00030	0.00000	-0.00000

RUN NO. 52/ 0 RN/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHEY	CHUL	CHLL	CHUR	CHLR	CHRF	Q
2.002	-5.412	-0.01080	-0.11310	-0.06130	-0.17430	-0.05650	-0.01810	-0.03550	-0.02830	-0.08260	579.900000
2.002	-3.362	-0.00900	-0.11790	-0.06160	-0.17950	-0.05550	-0.01990	-0.03770	-0.02870	-0.08270	579.900000
2.002	-1.319	-0.00420	-0.11850	-0.06190	-0.18050	-0.04630	-0.02330	-0.03930	-0.02610	-0.06410	579.900000
2.002	-0.294	-0.00120	-0.11850	-0.06210	-0.18070	-0.04290	-0.02240	-0.04010	-0.02390	-0.06230	579.900000
2.002	0.718	0.00080	-0.11860	-0.06220	-0.18080	-0.03980	-0.02290	-0.04140	-0.02200	-0.06360	579.900000
2.002	2.770	0.01050	-0.11770	-0.06270	-0.18040	-0.03330	-0.02440	-0.04680	-0.02160	-0.06530	579.900000
2.002	4.101	0.00850	-0.11770	-0.06260	-0.18030	-0.02920	-0.02390	-0.04820	-0.01540	-0.06420	579.900000
2.002	6.644	0.02070	-0.11530	-0.06320	-0.17850	-0.01620	-0.02380	-0.04740	-0.01840	-0.06560	579.900000
2.002	8.902	0.04370	-0.10700	-0.06340	-0.17410	-0.00330	-0.02050	-0.04820	-0.02480	-0.06400	579.900000
GRADIENT	0.02244	0.00007	0.00014	0.00006	0.00006	0.00319	0.00045	-0.00125	0.00151	-0.00024	0.00000

ABC 97-747 Q438 B C H F W2 V MON. RM/L

(0EX 520) (12 MAR 74)

7170 350303136

BASEF =	2.4219 94.FI.	UMP =	32.3910 IM.
LEEF =	14.2449 IM.	UMP =	.9093 IM.
BOEF =	26.1524 IM.	UMP =	11.2553 IM.
SCALE =	.3355 SCALE		

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RUN NO. = 39 / 0  BW/L = 2.76  GRADIENT INTERVAL = -5.00/ 5.00
XMRP = 32.3910 IN.  BETA =
YMRP = .0055 IN.  AIRBOM =
ZMRP = 11.2500 IN.  SPOSKE =
ELEV-L =

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PARAMETRIC DATA

WACH	ALPHA	CMR	CMR1	CMR2	CMR3	CMR4	CMR5	CMR6	CMR7	CMR8	CMR9	CMR10	CMR11	CMR12	CMR13	CMR14	CMR15	CMR16	CMR17	CMR18	CMR19	CMR20	CMR21	CMR22	CMR23	CMR24	CMR25	CMR26	CMR27	CMR28	CMR29	CMR30	CMR31	CMR32	CMR33	CMR34	CMR35	CMR36	CMR37	CMR38	CMR39	CMR40	CMR41	CMR42	CMR43	CMR44	CMR45	CMR46	CMR47	CMR48	CMR49	CMR50	CMR51	CMR52	CMR53	CMR54	CMR55	CMR56	CMR57	CMR58	CMR59	CMR60	CMR61	CMR62	CMR63	CMR64	CMR65	CMR66	CMR67	CMR68	CMR69	CMR70	CMR71	CMR72	CMR73	CMR74	CMR75	CMR76	CMR77	CMR78	CMR79	CMR80	CMR81	CMR82	CMR83	CMR84	CMR85	CMR86	CMR87	CMR88	CMR89	CMR90	CMR91	CMR92	CMR93	CMR94	CMR95	CMR96	CMR97	CMR98	CMR99	CMR100	CMR101	CMR102	CMR103	CMR104	CMR105	CMR106	CMR107	CMR108	CMR109	CMR110	CMR111	CMR112	CMR113	CMR114	CMR115	CMR116	CMR117	CMR118	CMR119	CMR120	CMR121	CMR122	CMR123	CMR124	CMR125	CMR126	CMR127	CMR128	CMR129	CMR130	CMR131	CMR132	CMR133	CMR134	CMR135	CMR136	CMR137	CMR138	CMR139	CMR140	CMR141	CMR142	CMR143	CMR144	CMR145	CMR146	CMR147	CMR148	CMR149	CMR150	CMR151	CMR152	CMR153	CMR154	CMR155	CMR156	CMR157	CMR158	CMR159	CMR160	CMR161	CMR162	CMR163	CMR164	CMR165	CMR166	CMR167	CMR168	CMR169	CMR170	CMR171	CMR172	CMR173	CMR174	CMR175	CMR176	CMR177	CMR178	CMR179	CMR180	CMR181	CMR182	CMR183	CMR184	CMR185	CMR186	CMR187	CMR188	CMR189	CMR190	CMR191	CMR192	CMR193	CMR194	CMR195	CMR196	CMR197	CMR198	CMR199	CMR200	CMR201	CMR202	CMR203	CMR204	CMR205	CMR206	CMR207	CMR208	CMR209	CMR210	CMR211	CMR212	CMR213	CMR214	CMR215	CMR216	CMR217	CMR218	CMR219	CMR220	CMR221	CMR222	CMR223	CMR224	CMR225	CMR226	CMR227	CMR228	CMR229	CMR230	CMR231	CMR232	CMR233	CMR234	CMR235	CMR236	CMR237	CMR238	CMR239	CMR240	CMR241	CMR242	CMR243	CMR244	CMR245	CMR246	CMR247	CMR248	CMR249	CMR250	CMR251	CMR252	CMR253	CMR254	CMR255	CMR256	CMR257	CMR258	CMR259	CMR260	CMR261	CMR262	CMR263	CMR264	CMR265	CMR266	CMR267	CMR268	CMR269	CMR270	CMR271	CMR272	CMR273	CMR274	CMR275	CMR276	CMR277	CMR278	CMR279	CMR280	CMR281	CMR282	CMR283	CMR284	CMR285	CMR286	CMR287	CMR288	CMR289	CMR290	CMR291	CMR292	CMR293	CMR294	CMR295	CMR296	CMR297	CMR298	CMR299	CMR300	CMR301	CMR302	CMR303	CMR304	CMR305	CMR306	CMR307	CMR308	CMR309	CMR310	CMR311	CMR312	CMR313	CMR314	CMR315	CMR316	CMR317	CMR318	CMR319	CMR320	CMR321	CMR322	CMR323	CMR324	CMR325	CMR326	CMR327	CMR328	CMR329	CMR330	CMR331	CMR332	CMR333	CMR334	CMR335	CMR336	CMR337	CMR338	CMR339	CMR340	CMR341	CMR342	CMR343	CMR344	CMR345	CMR346	CMR347	CMR348	CMR349	CMR350	CMR351	CMR352	CMR353	CMR354	CMR355	CMR356	CMR357	CMR358	CMR359	CMR360	CMR361	CMR362	CMR363	CMR364	CMR365	CMR366	CMR367	CMR368	CMR369	CMR370	CMR371	CMR372	CMR373	CMR374	CMR375	CMR376	CMR377	CMR378	CMR379	CMR380	CMR381	CMR382	CMR383	CMR384	CMR385	CMR386	CMR387	CMR388	CMR389	CMR390	CMR391	CMR392	CMR393	CMR394	CMR395	CMR396	CMR397	CMR398	CMR399	CMR400	CMR401	CMR402	CMR403	CMR404	CMR405	CMR406	CMR407	CMR408	CMR409	CMR410	CMR411	CMR412	CMR413	CMR414	CMR415	CMR416	CMR417	CMR418	CMR419	CMR420	CMR421	CMR422	CMR423	CMR424	CMR425	CMR426	CMR427	CMR428	CMR429	CMR430	CMR431	CMR432	CMR433	CMR434	CMR435	CMR436	CMR437	CMR438	CMR439	CMR440	CMR441	CMR442	CMR443	CMR444	CMR445	CMR446	CMR447	CMR448	CMR449	CMR450	CMR451	CMR452	CMR453	CMR454	CMR455	CMR456	CMR457	CMR458	CMR459	CMR460	CMR461	CMR462	CMR463	CMR464	CMR465	CMR466	CMR467	CMR468	CMR469	CMR470	CMR471	CMR472	CMR473	CMR474	CMR475	CMR476	CMR477	CMR478	CMR479	CMR480	CMR481	CMR482	CMR483	CMR484	CMR485	CMR486	CMR487	CMR488	CMR489	CMR490	CMR491	CMR492	CMR493	CMR494	CMR495	CMR496	CMR497	CMR498	CMR499	CMR500	CMR501	CMR502	CMR503	CMR504	CMR505	CMR506	CMR507	CMR508	CMR509	CMR510	CMR511	CMR512	CMR513	CMR514	CMR515	CMR516	CMR517	CMR518	CMR519	CMR520	CMR521	CMR522	CMR523	CMR524	CMR525	CMR526	CMR527	CMR528	CMR529	CMR530	CMR531	CMR532	CMR533	CMR534	CMR535	CMR536	CMR537	CMR538	CMR539	CMR540	CMR541	CMR542	CMR543	CMR544	CMR545	CMR546	CMR547	CMR548	CMR549	CMR550	CMR551	CMR552	CMR553	CMR554	CMR555	CMR556	CMR557	CMR558	CMR559	CMR560	CMR561	CMR562	CMR563	CMR564	CMR565	CMR566	CMR567	CMR568	CMR569	CMR570	CMR571	CMR572	CMR573	CMR574	CMR575	CMR576	CMR577	CMR578	CMR579	CMR580	CMR581	CMR582	CMR583	CMR584	CMR585	CMR586	CMR587	CMR588	CMR589	CMR590	CMR591	CMR592	CMR593	CMR594	CMR595	CMR596	CMR597	CMR598	CMR599	CMR600	CMR601	CMR602	CMR603	CMR604	CMR605	CMR606	CMR607	CMR608	CMR609	CMR610	CMR611	CMR612	CMR613	CMR614	CMR615	CMR616	CMR617	CMR618	CMR619	CMR620	CMR621	CMR622	CMR623	CMR624	CMR625	CMR626	CMR627	CMR628	CMR629	CMR630	CMR631	CMR632	CMR633	CMR634	CMR635	CMR636	CMR637	CMR638	CMR639	CMR640	CMR641	CMR642	CMR643	CMR644	CMR645	CMR646	CMR647	CMR648	CMR649	CMR650	CMR651	CMR652	CMR653	CMR654	CMR655	CMR656	CMR657	CMR658	CMR659	CMR660	CMR661	CMR662	CMR663	CMR664	CMR665	CMR666	CMR667	CMR668	CMR669	CMR670	CMR671	CMR672	CMR673	CMR674	CMR675	CMR676	CMR677	CMR678	CMR679	CMR680	CMR681	CMR682	CMR683	CMR684	CMR685	CMR686	CMR687	CMR688	CMR689	CMR690	CMR691	CMR692	CMR693	CMR694	CMR695	CMR696	CMR697	CMR698	CMR699	CMR700	CMR701	CMR702	CMR703	CMR704	CMR705	CMR706	CMR707	CMR708	CMR709	CMR710	CMR711	CMR712	CMR713	CMR714	CMR715	CMR716	CMR717	CMR718	CMR719	CMR720	CMR721	CMR722	CMR723	CMR724	CMR725	CMR726	CMR727	CMR728	CMR729	CMR730	CMR731	CMR732	CMR733	CMR734	CMR735	CMR736	CMR737	CMR738	CMR739	CMR740	CMR741	CMR742	CMR743	CMR744	CMR745	CMR746	CMR747	CMR748	CMR749	CMR750	CMR751	CMR752	CMR753	CMR754	CMR755	CMR756	CMR757	CMR758	CMR759	CMR760	CMR761	CMR762	CMR763	CMR764	CMR765	CMR766	CMR767	CMR768	CMR769	CMR770	CMR771	CMR772	CMR773	CMR774	CMR775	CMR776	CMR777	CMR778	CMR779	CMR780	CMR781	CMR782	CMR783	CMR784	CMR785	CMR786	CMR787	CMR788	CMR789	CMR790	CMR791	CMR792	CMR793	CMR794	CMR795	CMR796	CMR797	CMR798	CMR799	CMR800	CMR801	CMR802	CMR803	CMR804	CMR805	CMR806	CMR807	CMR808	CMR809	CMR810	CMR811	CMR812	CMR813	CMR814	CMR815	CMR816	CMR817	CMR818	CMR819	CMR820	CMR821	CMR822	CMR823	CMR824	CMR825	CMR826	CMR827	CMR828	CMR829	CMR830	CMR831	CMR832	CMR833	CMR834	CMR835	CMR836	CMR837	CMR838	CMR839	CMR840	CMR841	CMR842	CMR843	CMR844	CMR845	CMR846	CMR847	CMR848	CMR849	CMR850	CMR851	CMR852	CMR853	CMR854	CMR855	CMR856	CMR857	CMR858	CMR859	CMR860	CMR861	CMR862	CMR863	CMR864	CMR865	CMR866	CMR867	CMR868	CMR869	CMR870	CMR871	CMR872	CMR873	CMR874	CMR875	CMR876	CMR877	CMR878	CMR879	CMR880	CMR881	CMR882	CMR883	CMR884	CMR885	CMR886	CMR887	CMR888	CMR889	CMR890	CMR891	CMR892	CMR893	CMR894	CMR895	CMR896	CMR897	CMR898	CMR899	CMR900	CMR901	CMR902	CMR903	CMR904	CMR905	CMR906	CMR907	CMR908	CMR909	CMR910	CMR911	CMR912	CMR913	CMR914	CMR915	CMR916	CMR917	CMR918	CMR919	CMR920	CMR921	CMR922	CMR923	CMR924	CMR925	CMR926	CMR927	CMR928	CMR929	CMR930	CMR931	CMR932	CMR933	CMR934	CMR935	CMR936	CMR937	CMR938	CMR939	CMR940	CMR941	CMR942	CMR943	CMR944	CMR945	CMR946	CMR947	CMR948	CMR949	CMR950	CMR951	CMR952	CMR953	CMR954	CMR955	CMR956	CMR957	CMR958	CMR959	CMR960	CMR961	CMR962	CMR963	CMR964	CMR965	CMR966	CMR967	CMR968	CMR969	CMR970	CMR971	CMR972	CMR973	CMR974	CMR975	CMR976	CMR977	CMR978	CMR979	CMR980	CMR981	CMR982	CMR983	CMR984	CMR985	CMR986	CMR987	CMR988	CMR989	CMR990	CMR991	CMR992	CMR993	CMR994	CMR995	CMR996	CMR997	CMR998	CMR999	CMR1000	CMR1001	CMR1002	CMR1003	CMR1004	CMR1005	CMR1006	CMR1007	CMR1008	CMR1009	CMR1010	CMR1011	CMR1012	CMR1013	CMR1014	CMR1015	CMR1016	CMR1017	CMR1018	CMR1019	CMR1020	CMR1021	CMR1022	CMR1023	CMR1024	CMR1025	CMR1026	CMR1027	CMR1028	CMR1029	CMR1030	CMR1031	CMR1032	CMR1033	CMR1034	CMR1035	CMR1036	CMR1037	CMR1038	CMR1039	CMR1040	CMR1041	CMR1042	CMR1043	CMR1044	CMR1045	CMR1046	CMR1047	CMR1048	CMR1049	CMR1050	CMR1051	CMR1052	CMR1053	CMR1054	CMR1055	CMR1056	CMR1057	CMR1058	CMR1059	CMR1060	CMR1061	CMR1062	CMR1063	CMR1064	CMR1065	CMR1066	CMR1067	CMR1068	CMR1069	CMR1070	CMR1071	CMR1072	CMR1073	CMR1074	CMR1075	CMR1076	CMR1077	CMR1078	CMR1079	CMR1080	CMR1081	CMR1082	CMR1083	CMR1084	CMR1085	CMR1086	CMR1087	CMR1088	CMR1089	CMR1090	CMR1091	CMR1092	CMR1093	CMR1094	CMR1095	CMR1096	CMR1097	CMR1098	CMR1099	CMR1100	CMR1101	CMR1102	CMR1103	CMR1104	CMR1105	CMR1106	CMR1107	CMR1108	CMR1109	CMR1110	CMR1111	CMR1112	CMR1113	CMR1114	CMR1115	CMR1116	CMR1117	CMR1118	CMR1119	CMR1120	CMR1121	CMR1122	CMR1123	CMR1124	CMR1125	CMR1126	CMR1127	CMR1128	CMR1129	CMR1130	CMR1131	CMR1132	CMR1133	CMR1134	CMR1135	CMR1136	CMR1137	CMR1138	CMR1139	CMR1140	CMR1141	CMR1142	CMR1143	CMR1144	CMR1145	CMR1146	CMR1147	CMR1148	CMR1149	CMR1150	CMR1151	CMR1152	CMR1153	CMR1154	CMR1155	CMR1156	CMR1157	CMR1158	CMR1159	CMR1160	CMR1161	CMR1162	CMR1163	CMR1164	CMR1165	CMR1166	CMR1167	CMR1168	CMR1169	CMR1170	CMR1171	CMR1172	CMR1173	CMR1174	CMR1175	CMR1176	CMR1177	CMR1178	CMR1179	CMR1180	CMR1181	CMR1182	CMR1183	CMR1184	CMR1185	CMR1186	CMR1187	CMR1188	CMR1189	CMR1190	CMR1191	CMR1192	CMR1193	CMR1194	CMR1195	CMR1196	CMR1197	CMR1198	CMR1199	CMR1200	CMR1201	CMR1202	CMR1203	CMR1204	CMR1205	CMR1206	CMR1207	CMR1208	CMR1209	CMR1210	CMR1211	CMR1212	CMR1213	CMR1214	CMR1215	CMR1216	CMR1217	CMR1218	CMR1219	CMR1220	CMR1221	CMR1222	CMR1223	CMR1224	
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2014年12月

[illegible]

DATE 16 JUL 74

TABULATED SOURCE DATA - 04538

PAGE 129

ARC 97-747 04538 B C M F W I V MOM. RM/L

(08E028) (12 MAR 74)

REFERENCE DATA

REF = 2.4210 SQ.FT. THRP = 32.3010 IN.
 LREF = 14.2440 IN. THRP = .0000 IN.
 BREF = 28.1004 IN. THRP = 11.2500 IN.
 SCALE = .0000 SCALE

ALPHA = .000 ELEVOM = .000
 AILROM = .000 BDFLAP = -11.750
 SPBRK = 55.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 62/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	q
1.000	-5.154	.07960	.05690	-.00430	.03260	-.14510	-.11610	-.10500	-.16100	.01120	996.60000
1.000	-5.100	.11730	.06120	-.00420	.03700	-.12890	-.10550	-.10380	-.16790	.01400	996.60000
1.000	-1.045	.15070	.06430	-.00480	.03960	-.12080	-.09580	-.10930	-.17900	.01700	996.60000
1.000	-.028	.16340	.06340	-.00470	.06070	-.11700	-.0720	-.19080	-.18370	.01800	996.60000
1.000	1.010	.17590	.06800	-.00410	.06380	-.11360	-.09090	-.19200	-.18950	.01690	996.60000
1.000	3.070	.20660	.07140	-.00330	.06810	-.10950	-.08550	-.19830	-.20330	.01350	996.60000
1.000	5.143	.23320	.07500	-.00210	.07300	-.10110	-.07770	-.20820	-.21190	.01110	996.60000
1.000	6.173	.24970	.07750	-.00130	.07620	-.09530	-.07490	-.20350	-.21650	.01040	996.60000
GRADIENT		.01430	.00167	.00017	.00182	.00318	.00320	-.00225	-.00568	-.00008	-.00000

RUN NO. 59/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	q
2.002	-5.543	.05060	.03810	-.00630	.03180	-.13600	-.10710	-.15750	-.13620	.00200	572.20000
2.002	-5.490	.09300	.03960	-.00520	.03440	-.11480	-.09600	-.16140	-.14240	.00340	572.20000
2.002	-1.401	.13580	.04040	-.00410	.03640	-.09870	-.08490	-.16590	-.15350	.00650	572.20000
2.002	-.389	.15690	.04100	-.00340	.03760	-.09310	-.07930	-.16990	-.15950	.00700	572.20000
2.002	.624	.17680	.04210	-.00290	.03930	-.08830	-.07440	-.17370	-.16580	.00730	572.20000
2.002	2.707	.21660	.04570	-.00180	.04390	-.08080	-.06800	-.18270	-.18270	.00410	572.20000
2.002	4.770	.24570	.05000	-.00010	.04990	-.07650	-.06160	-.19930	-.19930	.00260	572.20000
2.002	5.766	.26240	.05190	.00040	.05230	-.07090	-.05870	-.19090	-.20120	.00180	572.20000
GRADIENT		.01867	.00129	.00061	.00180	.00436	.00412	-.00342	-.00658	-.00023	-.00000

ARC 97-747 0A538 B C M F W1 V MOM. RN/L

(08030) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 86.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 ELEVOM = .000
 AILRON = .000 BDFLAP = -11.700
 SPDRK = 55.000 RUDDER = -10.500
 ELEV-L = .000 ELEV-R = .000

RUN NO. 63/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHEI	CHUL	CHLL	CHUR	CHLR	CHBF	q
1.000	-5.047	.07170	-.03840	-.04320	-.08160	-.12230	-.03770	-.15610	-.13560	-.01670	596.30000
1.500	-3.008	.09550	-.03460	-.04420	-.07890	-.11270	-.03270	-.15690	-.14420	-.01760	596.30000
1.600	-.996	.12660	-.03700	-.04300	-.08000	-.10250	-.08470	-.16090	-.15500	-.01440	596.30000
1.800	.025	.14390	-.03560	-.04260	-.07820	-.09830	-.08090	-.16280	-.16030	-.01340	596.30000
1.600	1.034	.15860	-.03450	-.04210	-.07570	-.09560	-.07860	-.16820	-.16660	-.01390	596.30000
1.800	3.070	.19300	-.03450	-.04240	-.07690	-.09620	-.07220	-.17110	-.16030	-.01750	596.30000
1.800	5.109	.22100	-.03750	-.04510	-.08260	-.07840	-.06670	-.17690	-.18930	-.01610	596.30000
1.800	7.145	.25390	-.03600	-.04430	-.08310	-.06900	-.03860	-.18070	-.20080	-.01600	596.30000
1.600	9.165	.28970	-.03410	-.04350	-.07810	-.05370	-.03130	-.18180	-.21290	-.01630	596.30000
GRADIENT	.01590	.00012	.00012	.00041	.00051	.00426	.00333	-.00238	-.00592	.00004	.00000

RUN NO. 60/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHEI	CHUL	CHLL	CHUR	CHLR	CHBF	q
2.002	-3.433	.04400	-.04310	-.03630	-.07930	-.11330	-.08950	-.13420	-.11340	-.02400	571.70000
2.002	-3.374	.07390	-.04580	-.03790	-.08370	-.10070	-.08400	-.13710	-.12150	-.02280	571.70000
2.002	-1.355	.11790	-.04760	-.03710	-.08430	-.08560	-.07420	-.14240	-.13350	-.02050	571.70000
2.002	-1.349	.15620	-.04860	-.03710	-.08570	-.08150	-.06990	-.14580	-.13350	-.01900	571.70000
2.002	.667	.15370	-.04860	-.03690	-.08550	-.07760	-.06650	-.14910	-.14800	-.01800	571.70000
2.002	2.698	.19490	-.04870	-.03560	-.08490	-.06830	-.05930	-.15770	-.16380	-.02190	571.70000
2.002	4.731	.22950	-.04740	-.03450	-.08180	-.06130	-.05230	-.16560	-.17750	-.02470	571.70000
2.002	6.781	.26350	-.04390	-.03400	-.07800	-.05180	-.04500	-.17220	-.18930	-.02710	571.70000
2.002	8.779	.28590	-.03700	-.03360	-.07080	-.04200	-.04460	-.17780	-.19470	-.02810	571.70000
GRADIENT	.01912	.00019	.00040	.00040	.00023	.00470	.00389	-.00359	-.00694	-.00033	.00000

ARC 97-747 04538 B C M F VI V NOM. RN/L

(8EK031) (12 MAR 74)

REFERENCE DATA

XREF = 2.4210 58.77. XMRP = 32.3010 IN.
 LBREF = 14.2440 IN. YMRP = .0000 IN.
 BRREF = 28.1574 IN. ZMRP = 11.2500 IN.
 SCALE = .0000 SCALE

ALPHA = 20.000 ELEVON = .000
 AILRON = .000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 64/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.600	-5.044	.09050	-.14050	-.07200	-.21250	-.10370	-.06380	-.12930	-.12870	-.05290	595.10000
1.600	-2.997	.11480	-.14260	-.07220	-.21480	-.09320	-.06190	-.13560	-.13610	-.05680	595.10000
1.600	-.950	.13350	-.14400	-.07200	-.21600	-.08500	-.06550	-.14090	-.14290	-.06150	595.10000
1.600	.062	.15730	-.14340	-.07220	-.21560	-.07630	-.06100	-.14540	-.14920	-.06200	595.10000
1.600	1.071	.17090	-.14230	-.07230	-.21450	-.06930	-.05860	-.14750	-.15150	-.06090	595.10000
1.600	3.115	.16540	-.14020	-.07150	-.21170	-.06560	-.05740	-.15310	-.13530	-.05700	595.10000
1.600	5.168	.14900	-.13420	-.07200	-.20620	-.06020	-.05390	-.15440	-.10880	-.05390	595.10000
1.600	7.241	.12910	-.12620	-.07240	-.19860	-.04810	-.04840	-.14400	-.08150	-.04930	595.10000
1.600	9.275	.13490	-.11740	-.07180	-.18920	-.02770	-.05320	-.10990	-.10390	-.04760	595.10000
1.600	GRADIENT	.00932	.00044	.00009	.00053	.00513	.00059	-.00290	-.00029	-.00000	-.00000

RUN NO. 61/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-5.418	.10420	-.11230	-.06160	-.17390	-.07910	-.03690	-.10360	-.11160	-.06260	571.50000
2.002	-3.369	.12470	-.11810	-.06230	-.18030	-.07840	-.03740	-.11760	-.12300	-.06340	571.50000
2.002	-1.315	.13380	-.12040	-.06270	-.18310	-.06870	-.04660	-.12530	-.12390	-.06570	571.50000
2.002	-.313	.14830	-.12090	-.06270	-.18360	-.06170	-.04310	-.13020	-.12290	-.06610	571.50000
2.002	.709	.15030	-.12080	-.06270	-.18350	-.05940	-.04420	-.13430	-.11970	-.06600	571.50000
2.002	2.754	.11660	-.12050	-.06350	-.18390	-.05250	-.04480	-.13300	-.08080	-.06630	571.50000
2.002	4.784	.09770	-.11890	-.06370	-.18260	-.05170	-.04320	-.13300	-.05980	-.06480	571.50000
2.002	6.841	.08330	-.11700	-.06390	-.18090	-.03870	-.04080	-.11340	-.04840	-.06640	571.50000
2.002	8.884	.11020	-.11260	-.06360	-.17640	-.02070	-.03390	-.10760	-.05720	-.06420	571.50000
2.002	GRADIENT	-.00390	-.00006	-.00018	-.00024	.00334	-.00047	-.00182	.00858	-.00015	-.00000

ARC 97-747 QAS38 B C H F W1 V MOM. RM/L

(BEK052) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 80.FT. XMRP = 38.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 SREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0350 SCALE

ALPHA = .000 ELEVOM = .000
 AILROM = .000 BOFLAP = -11.700
 SPDRK = 95.000 RUDEL = -25.000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 88/ 0 RM/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	CHP	CHET	CHEO	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.000	-5.042	-0.13860	-0.07170	-0.03420	-0.02340	-0.15490	-0.17860	-0.05380	587.10000	
1.000	-3.002	-0.14120	-0.07180	-0.02970	-0.01490	-0.16950	-0.19420	-0.05370	587.10000	
1.000	-0.952	-0.14250	-0.07160	-0.02580	-0.01360	-0.17510	-0.20780	-0.05920	587.10000	
1.000	.062	-0.14190	-0.07150	-0.02080	-0.01190	-0.17700	-0.26550	-0.05920	587.10000	
1.000	1.085	-0.14070	-0.07150	-0.01890	-0.01290	-0.17910	-0.20550	-0.05850	587.10000	
1.000	3.122	-0.13890	-0.07110	-0.01550	-0.01440	-0.18030	-0.19550	-0.05760	587.10000	
1.000	5.175	-0.13290	-0.07130	-0.01410	-0.01350	-0.17930	-0.12670	-0.05390	587.10000	
1.000	7.217	-0.12440	-0.07180	-0.00890	-0.00870	-0.15970	-0.09210	-0.04860	587.10000	
1.000	9.270	-0.11580	-0.07120	-0.00380	-0.01490	-0.11770	-0.12680	-0.04580	587.10000	
GRADIENT	-0.0115	0.0043	0.0055	0.0243	0.0011	-0.00178	0.0545	-0.0025	-0.00050	

RUN NO. 84/ 0 RM/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	CHP	CHET	CHEO	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-5.553	-0.13900	-0.07160	-0.03110	-0.04370	-0.18760	-0.19730	-0.05170	565.50000	
2.002	-3.498	-0.14070	-0.07170	-0.02420	-0.03750	-0.20830	-0.25570	-0.05370	565.50000	
2.002	-1.421	-0.14060	-0.07150	-0.01970	-0.02990	-0.21420	-0.21460	-0.05630	565.50000	
2.002	-0.385	-0.14120	-0.07130	-0.01450	-0.02140	-0.21760	-0.21880	-0.05590	565.50000	
2.002	.644	-0.14020	-0.07060	-0.01200	-0.02000	-0.21990	-0.22320	-0.05670	565.50000	
2.002	2.704	-0.13600	-0.07130	-0.02830	-0.01750	-0.22650	-0.24070	-0.05350	565.50000	
2.002	4.770	-0.13030	-0.07050	-0.02650	-0.01260	-0.22890	-0.25140	-0.05230	565.50000	
2.002	6.797	-0.12580	-0.07070	-0.02600	-0.01150	-0.22940	-0.25750	-0.05100	565.50000	
GRADIENT	0.0125	0.0013	0.0065	0.0086	0.0098	-0.00168	-0.00574	-0.0031	-0.00050	

ARC 97-747 04338 B C M F W1 V MOM. RM/L

(BEK033) (12 MAR 74)

REFERENCE DATA

PARAMETRIC DATA

REF = 2.4210 88.47. XMP = 32.3010 IM.
 LREF = 14.2440 IM. YMP = .0000 IM.
 BREF = 28.1504 IM. ZMP = 11.2500 IM.
 SCALE = .0000 SCALE

ALPHA = 10.000 ELEVOM = .000
 AIRLUM = .000 BCFLAP = -11.700
 SPDRK = 95.000 RUCRER = -23.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 89/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHEI	CHEO	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.000	-5.031	.30870	-.03900	-.04260	-.07760	-.02990	-.03190	-.03190	-.17700	-.19350	-.01650	569.80000
1.000	-3.017	.32370	-.03220	-.04370	-.07390	-.02870	-.03050	-.03050	-.18200	-.20090	-.01680	569.80000
1.000	-.994	.34560	-.03390	-.04250	-.07640	-.02730	-.02620	-.02620	-.18610	-.20800	-.01370	569.80000
1.000	.021	.34970	-.03240	-.04160	-.07410	-.02610	-.02530	-.02530	-.18810	-.21300	-.01330	569.80000
1.000	1.033	.34160	-.03190	-.04200	-.07350	-.02420	-.02440	-.02440	-.19080	-.21950	-.01490	569.80000
1.000	3.064	.38610	-.03380	-.04250	-.07630	-.02020	-.02090	-.02090	-.19470	-.23250	-.01780	569.80000
1.000	5.095	.47410	-.03750	-.04460	-.08230	-.01730	-.01780	-.01780	-.19980	-.23950	-.01750	569.80000
1.000	7.133	.41970	-.04050	-.04440	-.08480	-.01560	-.01580	-.01580	-.20280	-.24830	-.01700	569.80000
1.000	9.166	.43460	-.03820	-.04360	-.07580	-.01190	-.01500	-.01500	-.20330	-.25620	-.01460	569.80000
GRADIENT		.01027	-.00012	.00020	.00008	.00141	.00151	.00151	-.00211	-.00524	-.00021	-.00000

RUN NO. 86/ 0 RN/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHEI	CHEO	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-5.430	.26920	-.04270	-.03700	-.07980	-.04070	-.02970	-.02970	-.17420	-.16540	-.02310	569.80000
2.002	-3.390	.28590	-.04590	-.03780	-.08380	-.03910	-.02980	-.02980	-.18180	-.17320	-.02190	569.80000
2.002	-1.359	.31650	-.04730	-.03690	-.08420	-.03570	-.02350	-.02350	-.18720	-.18840	-.01830	569.80000
2.002	-.347	.32840	-.04870	-.03690	-.08560	-.03410	-.02080	-.02080	-.18950	-.19360	-.01760	569.80000
2.002	.668	.34330	-.04920	-.03630	-.08560	-.03210	-.01890	-.01890	-.19310	-.20120	-.01770	569.80000
2.002	2.699	.37790	-.04860	-.03550	-.08410	-.02690	-.01370	-.01370	-.20000	-.21830	-.02230	569.80000
2.002	4.724	.39890	-.04730	-.03460	-.08200	-.02470	-.01170	-.01170	-.20390	-.23140	-.02480	569.80000
2.002	6.754	.41480	-.04410	-.03420	-.07830	-.02170	-.01000	-.01000	-.20610	-.24040	-.02790	569.80000
2.002	8.785	.42830	-.03780	-.03180	-.07180	-.01730	-.01000	-.01000	-.20780	-.24790	-.02810	569.80000
GRADIENT		.01420	-.00018	.00039	.00021	.00186	.00225	.00225	-.00283	-.00723	-.00034	.00000

ARC 97-747 04338 B C M F VI V MON. RM/L

(BEO34) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 80.FT. ZMRP = 32.3010 IM.
 LREF = 14.8440 IM. YMRP = .0000 IM.
 BRZF = 28.1004 IM. ZMRP = 11.2500 IM.
 SCALE = .0300 SCALE

ALPHA = 20.000 ELEVOM = .000
 AILROM = .000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = -25.000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 70/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	CHP	CHFI	CHFO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.000	-5.177	.32300	.03860	-.00370	.03510	-.04330	-.04850	-.18390	-.22890	.01080	590.10000
1.000	-5.110	.36690	.06280	-.00360	.05920	-.03860	-.03990	-.20960	-.23370	.01490	590.10000
1.000	-1.054	.38900	.06650	-.00380	.06270	-.03500	-.03430	-.21570	-.24250	.01560	590.10000
1.000	-.523	.39410	.06740	-.00380	.06360	-.03440	-.03240	-.21500	-.24590	.01710	590.10000
1.000	1.553	.42110	.06940	-.00340	.06600	-.03290	-.02990	-.21690	-.25030	.01340	590.10000
1.000	3.672	.42740	.07310	-.00300	.07020	-.02880	-.02260	-.22040	-.25840	.01230	590.10000
1.000	5.119	.44110	.07690	-.00210	.07440	-.02570	-.01860	-.22310	-.26140	.01050	590.10000
1.000	6.165	.44460	.07820	-.00150	.07650	-.02510	-.01790	-.22420	-.26270	.00940	590.10000
GRADIENT		.50950	.05164	.00110	.05176	.00153	.00272	-.00193	-.00368	-.00033	-.00000

RUN NO. 67/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	CHP	CHFI	CHFO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-5.415	.26310	-.11390	-.06100	.17810	-.02650	-.01140	-.13720	-.16430	-.006400	589.10000
2.002	-5.371	.25910	-.11540	-.06210	.18140	-.02640	-.01000	-.15910	-.16760	-.00360	589.10000
2.002	-1.122	.31110	-.11990	-.06210	.18220	-.02240	-.01100	-.16020	-.18130	-.00390	589.10000
2.002	-1.310	.30190	-.12090	-.06200	.18240	-.01990	-.00950	-.16930	-.18600	-.00420	589.10000
2.002	.715	.26680	-.12040	-.06380	.18290	-.01700	-.01010	-.16750	-.18440	-.00420	589.10000
2.002	2.758	.24510	-.11560	-.06310	.18190	-.01690	-.01170	-.16890	-.09320	-.00410	589.10000
2.002	4.727	.20420	-.11360	-.06310	.18150	-.01780	-.01390	-.15930	-.07930	-.00630	589.10000
2.002	6.039	.16420	-.11390	-.06310	.17940	-.01460	-.01340	-.13220	-.05950	-.00500	589.10000
2.002	6.886	.11620	-.11080	-.06300	.17390	-.00900	-.01460	-.12420	-.00480	-.00310	589.10000
GRADIENT		-.00319	.00001	.00001	.00017	.00113	-.00244	-.00037	.00418	-.00000	-.00000

ARC 87-747 04558 S C M F W1 V MOM. RM/L

(8E035) (12 MAR 74)

REFERENCE DATA

PARAMETRIC DATA

BRFP = 2.4815 80.FT. LMRP = 32.3510 IN.
 LRFP = 14.2440 IN. YMRP = .0000 IN.
 BRFP = 26.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

ALPHA = .000 ELEVOM = .000
 AILROM = .000 BDFLAP = -11.700
 SPDRK = 25.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 76/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHEI	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.001	-5.111	.09860	.05920	-.00360	.05560	-.04940	-.04000	-.10700	-.08090	.01030	589.70000
1.001	-3.107	.12790	.06330	-.00340	.05990	-.04040	-.03350	-.11440	-.08790	.01340	589.70000
1.001	-1.049	.1240	.06640	-.00410	.06230	-.03360	-.02770	-.11970	-.09390	.01630	589.70000
1.001	-.018	.16400	.06750	-.00400	.06360	-.03070	-.02500	-.12000	-.09760	.01630	589.70000
1.001	1.013	.17570	.06980	-.00330	.06650	-.02810	-.02290	-.12360	-.10120	.01460	589.70000
1.001	3.083	.20240	.07370	-.00270	.07100	-.02360	-.01760	-.13180	-.11200	.01070	589.70000
1.001	5.139	.22550	.07670	-.00170	.07300	-.02030	-.01270	-.13860	-.11990	.00810	589.70000
1.001	6.165	.23600	.07870	-.00140	.07400	-.01850	-.01170	-.14190	-.12430	.00770	589.70000
GRADIENT		.01196	.00168	.00014	.00182	.00271	.00257	-.00282	-.00386	-.00048	.00000

RUN NO. 71/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHEI	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-5.543	.07410	.03980	-.00560	.03420	-.04590	-.03900	-.08890	-.06820	.00140	566.90000
2.002	-3.477	.09940	.04040	-.00500	.03540	-.03460	-.03330	-.09290	-.07440	.00330	566.90000
2.002	-1.413	.12810	.04210	-.00450	.03810	-.02370	-.02700	-.09840	-.08240	.00660	566.90000
2.002	-.381	.14410	.04110	-.00310	.03800	-.02160	-.02290	-.10210	-.08660	.00670	566.90000
2.002	.654	.15820	.04260	-.00270	.03990	-.02060	-.01930	-.10770	-.09030	.00370	566.90000
2.002	2.709	.18590	.04630	-.00120	.04500	-.01860	-.01550	-.11790	-.10220	.00270	566.90000
2.002	4.774	.20800	.05100	.00010	.05110	-.01820	-.00970	-.12550	-.11040	.00030	566.90000
2.002	5.799	.21920	.05270	.00090	.05360	-.01670	-.00820	-.12900	-.11500	-.00020	566.90000
GRADIENT		.01330	.00127	.00063	.00190	.00186	.00283	-.00415	-.00447	-.00053	.00000

ARC 97-747 04538 B C M F W1 V DOM. RM/L

(BER036) (12 MAR 74)

REFERENCE DATA

9057 0 2.4210 36.07. YMRP = 32.3010 IM.
 LREF 4 14.2440 IM. YMRP = .0000 IM.
 BREF 2 28.1004 IM. ZMRP = 11.2300 IM.
 SCALE = .0350 SCALE

ALPHA = 10.000 ELEVOM = .000
 ALLROM = .500 80FLAP = -11.700
 SPDRK = 25.000 RUDDER = -10.000
 ELEV-L = .500 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 73/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHB	CHET	CHFO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.051	-1.050	.08500	-.03550	-.04220	-.07760	-.04270	-.02870	-.09050	-.06680	-.01430	590.30000
1.051	-3.018	.10320	-.03270	-.04390	-.07680	-.03350	-.02930	-.09440	-.07560	-.01340	590.30000
1.051	-.992	.11020	-.03440	-.04240	-.07680	-.02740	-.02340	-.09990	-.08160	-.01350	590.30000
1.051	.522	.14070	-.03270	-.04140	-.07400	-.02370	-.02140	-.10110	-.08480	-.01340	590.30000
1.051	1.037	.11250	-.03200	-.04790	-.07290	-.02090	-.02000	-.10390	-.06950	-.01410	590.30000
1.051	3.567	.17710	-.03350	-.04170	-.07360	-.01600	-.01820	-.11040	-.09880	-.01600	590.30000
1.051	5.099	.19320	-.03720	-.04460	-.08190	-.01420	-.01300	-.11640	-.10400	-.01630	590.30000
1.051	6.112	.20240	-.03550	-.04420	-.08270	-.01260	-.01260	-.11990	-.10850	-.01640	590.30000
1.051	7.135	.21190	-.03120	-.04370	-.08290	-.01190	-.01210	-.12330	-.11270	-.01590	590.30000
1.051	8.172	.22140	-.02140	-.04320	-.07450	-.00860	-.01160	-.13110	-.12430	-.01660	590.30000
GRADIENT		.01173	-.00006	.00040	.00034	.00320	.00210	-.00259	-.00382	-.00041	-.00000

RUN NO. 72/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHB	CHET	CHFO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.052	-5.421	.04280	-.04240	-.03590	-.07990	-.04440	-.02790	-.07990	-.04670	-.02100	561.70000
2.052	-3.348	.10570	-.04370	-.03740	-.07790	-.03760	-.02800	-.08320	-.05270	-.02390	561.70000
2.052	-1.356	.11560	-.04700	-.03560	-.08300	-.02660	-.02110	-.08860	-.07230	-.02350	561.70000
2.052	-.342	.12230	-.04890	-.03650	-.08990	-.02650	-.01920	-.09230	-.07570	-.01390	561.70000
2.052	.670	.13230	-.04820	-.03680	-.09470	-.02400	-.01140	-.09390	-.07970	-.01320	561.70000
2.052	2.700	.16210	-.04630	-.03430	-.09330	-.01690	-.01290	-.10220	-.09120	-.02350	561.70000
2.052	4.728	.18340	-.04600	-.03430	-.09070	-.01640	-.00360	-.10590	-.09940	-.02320	561.70000
2.052	5.747	.19440	-.04340	-.03400	-.07940	-.01470	.00360	-.11330	-.10450	-.02630	561.70000
2.052	6.762	.20510	-.04360	-.03370	-.07790	-.01360	-.00410	-.11650	-.10820	-.02820	561.70000
2.052	8.792	.21490	-.03560	-.03360	-.07720	-.01500	-.00790	-.12520	-.10260	-.02970	561.70000
GRADIENT		.01264	-.00011	.00037	.00028	.00263	.00220	-.00324	-.00456	-.00046	-.00000

ARC 97-747 04338 B C M F W1 V MOM. RN/L

(08K037) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 90.FT. YMRP = 32.3010 IM.
LREF = 14.2440 IM. YMRP = .0000 IM.
BREF = 28.2204 IM. YMRP = 11.2400 IM.
SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHA = 20.000 ELEVOM = .000
AIIROM = .000 BOFLAP = -11.700
SPDBRK = 25.000 RUDDER = -10.000
ELEV-L = .000 ELEV-R = .000

RUN NO. 74/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHRF	B
1.001	-5.042	.09000	-.13800	-.07130	-.20930	-.03100	-.01920	-.07480	-.06330	-.05320	590.30000
1.001	-2.998	.10895	-.14065	-.07140	-.21190	-.02840	-.01360	-.08160	-.06930	-.05480	590.30000
1.001	-.954	.12435	-.14255	-.07140	-.21390	-.02340	-.01310	-.08760	-.07320	-.05750	590.30000
1.001	.064	.13495	-.14225	-.07140	-.21365	-.01900	-.01170	-.09100	-.07450	-.05850	590.30000
1.001	1.583	.14690	-.14075	-.07150	-.21225	-.01940	-.01210	-.09950	-.07890	-.05890	590.30000
1.001	3.133	.16650	-.13850	-.07100	-.20950	-.01710	-.01170	-.10990	-.08480	-.05750	590.30000
1.001	5.175	.14535	-.13180	-.07140	-.20310	-.01605	-.00970	-.10830	-.06250	-.05360	590.30000
1.001	6.202	.13350	-.12600	-.07110	-.19910	-.01450	-.00740	-.10520	-.05210	-.04980	590.30000
1.001	7.222	.13040	-.12475	-.07150	-.19620	-.01230	-.00640	-.10230	-.04680	-.04650	590.30000
1.001	9.272	.13290	-.11710	-.07140	-.18850	-.00610	-.01170	-.08830	-.06220	-.04590	590.30000
GRADIENT	.00949	.00040	.00040	.00005	.00044	.00185	.00033	-.00474	-.00256	-.00246	-.00000

RUN NO. 75/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHRF	B
2.002	-5.415	.08320	-.11250	-.06150	-.17400	-.02920	-.01380	-.06680	-.05640	-.06290	565.90000
2.002	-3.364	.09320	-.11790	-.06180	-.17960	-.02040	-.00860	-.07190	-.05850	-.06340	565.90000
2.002	-1.329	.10390	-.11930	-.06180	-.18130	-.02240	-.00930	-.07610	-.05940	-.06290	565.90000
2.002	-.304	.10750	-.11940	-.06160	-.18100	-.02050	-.00760	-.07750	-.05810	-.06320	565.90000
2.002	.712	.11060	-.12040	-.06170	-.18210	-.01870	-.00820	-.08060	-.05680	-.06360	565.90000
2.002	2.757	.11320	-.11890	-.06300	-.18190	-.01800	-.01070	-.09210	-.05180	-.06460	565.90000
2.002	4.801	.09350	-.11750	-.06290	-.18010	-.01820	-.01110	-.09000	-.03480	-.06320	565.90000
2.002	5.815	.08820	-.11680	-.06270	-.17960	-.01820	-.01310	-.08570	-.03190	-.06330	565.90000
2.002	6.844	.08390	-.11550	-.06340	-.17880	-.01630	-.01320	-.08240	-.03300	-.06450	565.90000
2.002	8.887	.09410	-.10970	-.06280	-.17250	-.01050	-.01160	-.08000	-.03590	-.06270	565.90000
GRADIENT	.00068	.00010	.00010	-.00018	-.00098	.00118	-.00023	-.00260	.00276	-.00007	-.00000

APC 97-747 OASIS B C M F W1 V MON. RM/L

(DEC 03 1964) (12 MAR 74)

REFERENCE DATA

98EF =	2.4210 SQ. FT.	24MP =	32.3610 LM.
99EF =	14.2440 LM.	24MP =	.0000 LM.
98EF =	20.1904 LM.	24MP =	11.2500 LM.
SCALE =	.0300 SCALE		

PARAMETRIC DATA

BETA	=	.000	ELEVON	=	.000
AILRON	=	.000	BDFLAP	=	-11.700
SPDRBK	=	.000	RUDER	=	.000
ELEV-L	=	.000	ELEV-R	=	.000

RUN NO. 77/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

NAME	ALPHA	CHW	CHW1	CHW2	CHW3	CHW4	CHW5	CHW6	CHW7	CHW8	CHW9	CHW10	CHW11	CHW12	CHW13	CHW14	CHW15	CHW16	CHW17	CHW18	CHW19	CHW20	CHW21	CHW22	CHW23	CHW24	CHW25	CHW26	CHW27	CHW28	CHW29	CHW30	CHW31	CHW32	CHW33	CHW34	CHW35	CHW36	CHW37	CHW38	CHW39	CHW40	CHW41	CHW42	CHW43	CHW44	CHW45	CHW46	CHW47	CHW48	CHW49	CHW50	CHW51	CHW52	CHW53	CHW54	CHW55	CHW56	CHW57	CHW58	CHW59	CHW60	CHW61	CHW62	CHW63	CHW64	CHW65	CHW66	CHW67	CHW68	CHW69	CHW70	CHW71	CHW72	CHW73	CHW74	CHW75	CHW76	CHW77	CHW78	CHW79	CHW80	CHW81	CHW82	CHW83	CHW84	CHW85	CHW86	CHW87	CHW88	CHW89	CHW90	CHW91	CHW92	CHW93	CHW94	CHW95	CHW96	CHW97	CHW98	CHW99	CHW100	CHW101	CHW102	CHW103	CHW104	CHW105	CHW106	CHW107	CHW108	CHW109	CHW110	CHW111	CHW112	CHW113	CHW114	CHW115	CHW116	CHW117	CHW118	CHW119	CHW120	CHW121	CHW122	CHW123	CHW124	CHW125	CHW126	CHW127	CHW128	CHW129	CHW130	CHW131	CHW132	CHW133	CHW134	CHW135	CHW136	CHW137	CHW138	CHW139	CHW140	CHW141	CHW142	CHW143	CHW144	CHW145	CHW146	CHW147	CHW148	CHW149	CHW150	CHW151	CHW152	CHW153	CHW154	CHW155	CHW156	CHW157	CHW158	CHW159	CHW160	CHW161	CHW162	CHW163	CHW164	CHW165	CHW166	CHW167	CHW168	CHW169	CHW170	CHW171	CHW172	CHW173	CHW174	CHW175	CHW176	CHW177	CHW178	CHW179	CHW180	CHW181	CHW182	CHW183	CHW184	CHW185	CHW186	CHW187	CHW188	CHW189	CHW190	CHW191	CHW192	CHW193	CHW194	CHW195	CHW196	CHW197	CHW198	CHW199	CHW200	CHW201	CHW202	CHW203	CHW204	CHW205	CHW206	CHW207	CHW208	CHW209	CHW210	CHW211	CHW212	CHW213	CHW214	CHW215	CHW216	CHW217	CHW218	CHW219	CHW220	CHW221	CHW222	CHW223	CHW224	CHW225	CHW226	CHW227	CHW228	CHW229	CHW230	CHW231	CHW232	CHW233	CHW234	CHW235	CHW236	CHW237	CHW238	CHW239	CHW240	CHW241	CHW242	CHW243	CHW244	CHW245	CHW246	CHW247	CHW248	CHW249	CHW250	CHW251	CHW252	CHW253	CHW254	CHW255	CHW256	CHW257	CHW258	CHW259	CHW260	CHW261	CHW262	CHW263	CHW264	CHW265	CHW266	CHW267	CHW268	CHW269	CHW270	CHW271	CHW272	CHW273	CHW274	CHW275	CHW276	CHW277	CHW278	CHW279	CHW280	CHW281	CHW282	CHW283	CHW284	CHW285	CHW286	CHW287	CHW288	CHW289	CHW290	CHW291	CHW292	CHW293	CHW294	CHW295	CHW296	CHW297	CHW298	CHW299	CHW300	CHW301	CHW302	CHW303	CHW304	CHW305	CHW306	CHW307	CHW308	CHW309	CHW310	CHW311	CHW312	CHW313	CHW314	CHW315	CHW316	CHW317	CHW318	CHW319	CHW320	CHW321	CHW322	CHW323	CHW324	CHW325	CHW326	CHW327	CHW328	CHW329	CHW330	CHW331	CHW332	CHW333	CHW334	CHW335	CHW336	CHW337	CHW338	CHW339	CHW340	CHW341	CHW342	CHW343	CHW344	CHW345	CHW346	CHW347	CHW348	CHW349	CHW350	CHW351	CHW352	CHW353	CHW354	CHW355	CHW356	CHW357	CHW358	CHW359	CHW360	CHW361	CHW362	CHW363	CHW364	CHW365	CHW366	CHW367	CHW368	CHW369	CHW370	CHW371	CHW372	CHW373	CHW374	CHW375	CHW376	CHW377	CHW378	CHW379	CHW380	CHW381	CHW382	CHW383	CHW384	CHW385	CHW386	CHW387	CHW388	CHW389	CHW390	CHW391	CHW392	CHW393	CHW394	CHW395	CHW396	CHW397	CHW398	CHW399	CHW400	CHW401	CHW402	CHW403	CHW404	CHW405	CHW406	CHW407	CHW408	CHW409	CHW410	CHW411	CHW412	CHW413	CHW414	CHW415	CHW416	CHW417	CHW418	CHW419	CHW420	CHW421	CHW422	CHW423	CHW424	CHW425	CHW426	CHW427	CHW428	CHW429	CHW430	CHW431	CHW432	CHW433	CHW434	CHW435	CHW436	CHW437	CHW438	CHW439	CHW440	CHW441	CHW442	CHW443	CHW444	CHW445	CHW446	CHW447	CHW448	CHW449	CHW450	CHW451	CHW452	CHW453	CHW454	CHW455	CHW456	CHW457	CHW458	CHW459	CHW460	CHW461	CHW462	CHW463	CHW464	CHW465	CHW466	CHW467	CHW468	CHW469	CHW470	CHW471	CHW472	CHW473	CHW474	CHW475	CHW476	CHW477	CHW478	CHW479	CHW480	CHW481	CHW482	CHW483	CHW484	CHW485	CHW486	CHW487	CHW488	CHW489	CHW490	CHW491	CHW492	CHW493	CHW494	CHW495	CHW496	CHW497	CHW498	CHW499	CHW500	CHW501	CHW502	CHW503	CHW504	CHW505	CHW506	CHW507	CHW508	CHW509	CHW510	CHW511	CHW512	CHW513	CHW514	CHW515	CHW516	CHW517	CHW518	CHW519	CHW520	CHW521	CHW522	CHW523	CHW524	CHW525	CHW526	CHW527	CHW528	CHW529	CHW530	CHW531	CHW532	CHW533	CHW534	CHW535	CHW536	CHW537	CHW538	CHW539	CHW540	CHW541	CHW542	CHW543	CHW544	CHW545	CHW546	CHW547	CHW548	CHW549	CHW550	CHW551	CHW552	CHW553	CHW554	CHW555	CHW556	CHW557	CHW558	CHW559	CHW560	CHW561	CHW562	CHW563	CHW564	CHW565	CHW566	CHW567	CHW568	CHW569	CHW570	CHW571	CHW572	CHW573	CHW574	CHW575	CHW576	CHW577	CHW578	CHW579	CHW580	CHW581	CHW582	CHW583	CHW584	CHW585	CHW586	CHW587	CHW588	CHW589	CHW590	CHW591	CHW592	CHW593	CHW594	CHW595	CHW596	CHW597	CHW598	CHW599	CHW600	CHW601	CHW602	CHW603	CHW604	CHW605	CHW606	CHW607	CHW608	CHW609	CHW610	CHW611	CHW612	CHW613	CHW614	CHW615	CHW616	CHW617	CHW618	CHW619	CHW620	CHW621	CHW622	CHW623	CHW624	CHW625	CHW626	CHW627	CHW628	CHW629	CHW630	CHW631	CHW632	CHW633	CHW634	CHW635	CHW636	CHW637	CHW638	CHW639	CHW640	CHW641	CHW642	CHW643	CHW644	CHW645	CHW646	CHW647	CHW648	CHW649	CHW650	CHW651	CHW652	CHW653	CHW654	CHW655	CHW656	CHW657	CHW658	CHW659	CHW660	CHW661	CHW662	CHW663	CHW664	CHW665	CHW666	CHW667	CHW668	CHW669	CHW670	CHW671	CHW672	CHW673	CHW674	CHW675	CHW676	CHW677	CHW678	CHW679	CHW680	CHW681	CHW682	CHW683	CHW684	CHW685	CHW686	CHW687	CHW688	CHW689	CHW690	CHW691	CHW692	CHW693	CHW694	CHW695	CHW696	CHW697	CHW698	CHW699	CHW700	CHW701	CHW702	CHW703	CHW704	CHW705	CHW706	CHW707	CHW708	CHW709	CHW710	CHW711	CHW712	CHW713	CHW714	CHW715	CHW716	CHW717	CHW718	CHW719	CHW720	CHW721	CHW722	CHW723	CHW724	CHW725	CHW726	CHW727	CHW728	CHW729	CHW730	CHW731	CHW732	CHW733	CHW734	CHW735	CHW736	CHW737	CHW738	CHW739	CHW740	CHW741	CHW742	CHW743	CHW744	CHW745	CHW746	CHW747	CHW748	CHW749	CHW750	CHW751	CHW752	CHW753	CHW754	CHW755	CHW756	CHW757	CHW758	CHW759	CHW760	CHW761	CHW762	CHW763	CHW764	CHW765	CHW766	CHW767	CHW768	CHW769	CHW770	CHW771	CHW772	CHW773	CHW774	CHW775	CHW776	CHW777	CHW778	CHW779	CHW780	CHW781	CHW782	CHW783	CHW784	CHW785	CHW786	CHW787	CHW788	CHW789	CHW790	CHW791	CHW792	CHW793	CHW794	CHW795	CHW796	CHW797	CHW798	CHW799	CHW800	CHW801	CHW802	CHW803	CHW804	CHW805	CHW806	CHW807	CHW808	CHW809	CHW810	CHW811	CHW812	CHW813	CHW814	CHW815	CHW816	CHW817	CHW818	CHW819	CHW820	CHW821	CHW822	CHW823	CHW824	CHW825	CHW826	CHW827	CHW828	CHW829	CHW830	CHW831	CHW832	CHW833	CHW834	CHW835	CHW836	CHW837	CHW838	CHW839	CHW840	CHW841	CHW842	CHW843	CHW844	CHW845	CHW846	CHW847	CHW848	CHW849	CHW850	CHW851	CHW852	CHW853	CHW854	CHW855	CHW856	CHW857	CHW858	CHW859	CHW860	CHW861	CHW862	CHW863	CHW864	CHW865	CHW866	CHW867	CHW868	CHW869	CHW870	CHW871	CHW872	CHW873	CHW874	CHW875	CHW876	CHW877	CHW878	CHW879	CHW880	CHW881	CHW882	CHW883	CHW884	CHW885	CHW886	CHW887	CHW888	CHW889	CHW890	CHW891	CHW892	CHW893	CHW894	CHW895	CHW896	CHW897	CHW898	CHW899	CHW900	CHW901	CHW902	CHW903	CHW904	CHW905	CHW906	CHW907	CHW908	CHW909	CHW910	CHW911	CHW912	CHW913	CHW914	CHW915	CHW916	CHW917	CHW918	CHW919	CHW920	CHW921	CHW922	CHW923	CHW924	CHW925	CHW926	CHW927	CHW928	CHW929	CHW930	CHW931	CHW932	CHW933	CHW934	CHW935	CHW936	CHW937	CHW938	CHW939	CHW940	CHW941	CHW942	CHW943	CHW944	CHW945	CHW946	CHW947	CHW948	CHW949	CHW950	CHW951	CHW952	CHW953	CHW954	CHW955	CHW956	CHW957	CHW958	CHW959	CHW960	CHW961	CHW962	CHW963	CHW964	CHW965	CHW966	CHW967	CHW968	CHW969	CHW970	CHW971	CHW972	CHW973	CHW974	CHW975	CHW976	CHW977	CHW978	CHW979	CHW980	CHW981	CHW982	CHW983	CHW984	CHW985	CHW986	CHW987	CHW988	CHW989	CHW990	CHW991	CHW992	CHW993	CHW994	CHW995	CHW996	CHW997	CHW998	CHW999	CHW1000	CHW1001	CHW1002	CHW1003	CHW1004	CHW1005	CHW1006	CHW1007	CHW1008	CHW1009	CHW1010	CHW1011	CHW1012	CHW1013	CHW1014	CHW1015	CHW1016	CHW1017	CHW1018	CHW1019	CHW1020	CHW1021	CHW1022	CHW1023	CHW1024	CHW1025	CHW1026	CHW1027	CHW1028	CHW1029	CHW1030	CHW1031	CHW1032	CHW1033	CHW1034	CHW1035	CHW1036	CHW1037	CHW1038	CHW1039	CHW1040	CHW1041	CHW1042	CHW1043	CHW1044	CHW1045	CHW1046	CHW1047	CHW1048	CHW1049	CHW1050	CHW1051	CHW1052	CHW1053	CHW1054	CHW1055	CHW1056	CHW1057	CHW1058	CHW1059	CHW1060	CHW1061	CHW1062	CHW1063	CHW1064	CHW1065	CHW1066	CHW1067	CHW1068	CHW1069	CHW1070	CHW1071	CHW1072	CHW1073	CHW1074	CHW1075	CHW1076	CHW1077	CHW1078	CHW1079	CHW1080	CHW1081	CHW1082	CHW1083	CHW1084	CHW1085	CHW1086	CHW1087	CHW1088	CHW1089	CHW1090	CHW1091	CHW1092	CHW1093	CHW1094	CHW1095	CHW1096	CHW1097	CHW1098	CHW1099	CHW1100	CHW1101	CHW1102	CHW1103	CHW1104	CHW1105	CHW1106	CHW1107	CHW1108	CHW1109	CHW1110	CHW1111	CHW1112	CHW1113	CHW1114	CHW1115	CHW1116	CHW1117	CHW1118	CHW1119	CHW1120	CHW1121	CHW1122	CHW1123	CHW1124	CHW1125	CHW1126	CHW1127	CHW1128	CHW1129	CHW1130	CHW1131	CHW1132	CHW1133	CHW1134	CHW1135	CHW1136	CHW1137	CHW1138	CHW1139	CHW1140	CHW1141	CHW1142	CHW1143	CHW1144	CHW1145	CHW1146	CHW1147	CHW1148	CHW1149	CHW1150	CHW1151	CHW1152	CHW1153	CHW1154	CHW1155	CHW1156	CHW1157	CHW1158	CHW1159	CHW1160	CHW1161	CHW1162	CHW1163	CHW1164	CHW1165	CHW1166	CHW1167	CHW1168	CHW1169	CHW1170	CHW1171	CHW1172	CHW1173	CHW1174	CHW1175	CHW1176	CHW1177	CHW1178	CHW1179	CHW1180	CHW1181	CHW1182	CHW1183	CHW1184	CHW1185	CHW1186	CHW1187	CHW1188	CHW1189	CHW1190	CHW1191	CHW1192	CHW1193	CHW1194	CHW1195	CHW1196	CHW1197	CHW1198	CHW1199	CHW1200	CHW1201	CHW1202	CHW1203	CHW1204	CHW1205	CHW1206	CHW1207	CHW1208	CHW1209	CHW1210	CHW1211	CHW1212	CHW1213	CHW1214	CHW1215	CHW1216	CHW1217	CHW1218	CHW1219	CHW1220	CHW1221	CHW1222	CHW1223	CHW1224	CH
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FORM NO. 41/0 MN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

ABC 97-747 GAS38 B C M F VI V MOM. RM/L

(BEC039) (12 MAR 74)

REFERENCE DATA

PARAMETRIC DATA

BRI' = 2.4219 80.7' --AP = 32.3010 IM.
 LREF = 14.2447 IM. YREF = .0000 IM.
 BECF = 20.1054 IM. ZREF = 11.2500 IM.
 SCALE = .0000 SCALE

ALPHA = .000 ELEVOM = .000
 AIRLOM = -.000 BOFLAP = -11.700
 SPDBRK = 85.000 PUSSEP = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 78/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

NACH	BETA	CIR	CMEI	CHEO	CNET	CUL	CHLL	CHUR	CHLR	CHBF	Q
1.001	-5.167	-1.8245	.03950	-.00360	.05590	-.25530	-.25800	-.25570	-.18260	.01360	390.90000
1.001	-5.166	-.03960	.06320	-.00340	.05590	-.22470	-.22850	-.21910	-.19230	.01680	390.90000
1.001	-1.038	-.01655	.08720	-.00380	.06340	-.22180	-.21910	-.22070	-.21380	.01840	390.90000
1.001	-.010	-.00550	.06770	-.00370	.06400	-.22080	-.21930	-.22170	-.21090	.01900	390.90000
1.001	1.018	.00510	.07000	-.00330	.06670	-.21900	-.21140	-.22170	-.21280	.01810	390.90000
1.001	3.461	.02870	.07540	-.00280	.07060	-.21620	-.20310	-.22200	-.22190	.01500	390.90000
1.001	5.147	.06180	.07610	-.00190	.07480	-.20540	-.19250	-.22230	-.21190	.01280	390.90000
1.001	6.186	.08880	.07780	-.00160	.07620	-.19110	-.18590	-.22170	-.20360	.01110	390.90000
GRADIENT	.01152	.00162	.00162	.00011	.00172	.00137	.00378	-.00047	-.00537	-.00028	-.00000

RUN NO. 82/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

NACH	BETA	CIR	CMEI	CHLO	CNET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-5.544	-1.12000	.03940	-.00090	.03350	-.21650	-.22430	-.18820	-.18260	.00370	375.10000
2.002	-5.471	-.06770	.04070	-.00310	.03560	-.22190	-.20990	-.20050	-.16330	.00470	375.10000
2.002	-1.414	-.02960	.04080	-.00410	.03670	-.21480	-.19330	-.20050	-.17420	.00610	375.10000
2.002	-.386	-.00940	.04170	-.00320	.03890	-.21170	-.18730	-.20090	-.16010	.00790	375.10000
2.002	.656	.01010	.04220	-.00280	.03950	-.20720	-.18060	-.21050	-.14730	.00880	375.10000
2.002	2.722	.04860	.04620	-.00130	.04480	-.19400	-.17340	-.21210	-.20400	.00510	375.10000
2.002	4.772	.08480	.05050	.00040	.05090	-.17330	-.16170	-.21330	-.21620	.00320	375.10000
2.002	5.811	.12370	.05270	.00110	.05310	-.15700	-.15620	-.21340	-.22110	.00230	375.10000
GRADIENT	.00936	.00123	.00067	.00067	.00190	.00579	.00568	-.00146	-.00662	-.00020	-.00000

ARC 87-747 Q4338 B C M P W1 V MOM. RN/L

(8E040) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 80.FT. YMRP = 32.3916 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

ALPHA = 10.000 ELEVOM = .000
 AIRLOM = .000 BOFLAP = -11.700
 SPDRK = 85.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 79/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.601	-5.043	-.07800	-.03650	-.04160	-.07800	-.20960	-.20780	-.19000	-.14940	-.01710	589.10000
1.601	-3.016	-.03180	-.03340	-.04270	-.07610	-.20220	-.19840	-.19000	-.15690	-.01850	589.10000
1.601	-.987	-.02200	-.03560	-.04150	-.07730	-.19780	-.18900	-.19350	-.17120	-.01530	589.10000
1.601	.033	-.00840	-.03370	-.04150	-.07520	-.19560	-.18430	-.19450	-.17740	-.01440	589.10000
1.601	1.051	.00780	-.03160	-.04170	-.07320	-.19170	-.17380	-.19460	-.18470	-.01330	589.10000
1.601	3.075	.03670	-.03390	-.04110	-.07500	-.18580	-.17140	-.19540	-.19850	-.01910	589.10000
1.601	5.118	.06280	-.03760	-.04360	-.08130	-.17930	-.16390	-.19680	-.20920	-.01770	589.10000
1.601	6.126	.07850	-.03860	-.04400	-.08260	-.17440	-.15970	-.19820	-.21440	-.01770	589.10000
1.601	7.134	.10280	-.03940	-.04320	-.08250	-.16470	-.15290	-.19890	-.22150	-.01670	589.10000
1.601	9.160	.16010	-.03280	-.04290	-.07570	-.13170	-.13380	-.19650	-.23110	-.01720	589.10000
GRADIENT	.01454	.00613	.00023	.00023	.00037	.00272	.00444	-.00085	-.00651	-.00009	-.00000

RUN NO. 83/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-5.422	-.11500	-.04340	-.03110	-.07970	-.21300	-.19840	-.17100	-.12540	-.02500	579.90000
2.002	-3.389	-.07650	-.04620	-.03740	-.08370	-.19950	-.18840	-.17620	-.13520	-.02050	579.90000
2.002	-1.361	-.02920	-.04800	-.03650	-.08480	-.18760	-.17820	-.18110	-.13260	-.01780	579.90000
2.002	-.342	-.00810	-.04930	-.03610	-.08560	-.18220	-.16680	-.18260	-.15940	-.01560	579.90000
2.002	.670	.01130	-.04380	-.03620	-.08600	-.17920	-.16500	-.18270	-.16780	-.01730	579.90000
2.002	2.710	.05990	-.04680	-.03340	-.08420	-.16780	-.14730	-.18750	-.18670	-.02190	579.90000
2.002	4.727	.09850	-.04710	-.03480	-.08190	-.15040	-.13750	-.18970	-.19670	-.02430	579.90000
2.002	5.745	.11950	-.04540	-.03370	-.07910	-.14320	-.13290	-.19160	-.20100	-.02510	579.90000
2.002	6.761	.14770	-.04360	-.03350	-.07710	-.12920	-.12480	-.19430	-.20750	-.02680	579.90000
2.002	8.800	.18480	-.03680	-.03290	-.06970	-.10100	-.12170	-.19510	-.21250	-.02750	579.90000
GRADIENT	.02156	.00010	.00031	.00031	.00020	.00502	.00636	-.00163	-.00775	-.00064	.00000



ARC 97-747 Q4538 B C M F W I V MOM. RM/L

(BER041) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 80.FT. WPP = 32.3010 IN.
 LREF = 14.2440 IN. VREF = .0900 IN.
 BREF = 58.1500 IN. ZMRP = 11.2150 IN.
 SCALE = .0500 SCALE

PARAMETRIC DATA

ALPHA = 20.000 ELEVOM = .000
 AIRLON = .000 BDFLAP = -11.700
 SPDRK = 85.000 RUDEP = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 80/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHEI	CHEO	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.601	-5.049	.00270	-.14160	-.07170	-.21330	-.18820	-.11310	-.15310	-.15310	-.15300	-.03270	591.80000
1.601	-3.003	.01250	-.14340	-.07110	-.21450	-.18250	-.12840	-.16450	-.16450	-.15890	-.05530	591.80000
1.601	-.958	-.00610	-.14420	-.07130	-.21550	-.17450	-.16210	-.16760	-.16760	-.16280	-.06180	591.80000
1.601	.070	-.00570	-.14350	-.07140	-.21490	-.17120	-.17020	-.17000	-.17000	-.16570	-.06250	591.80000
1.601	1.101	-.00170	-.14240	-.07140	-.21390	-.16650	-.16370	-.17060	-.17060	-.15800	-.06130	591.80000
1.601	3.140	-.00680	-.14060	-.07100	-.21160	-.15420	-.14580	-.16870	-.16870	-.12440	-.05780	591.80000
1.601	5.179	-.00780	-.13450	-.07160	-.20590	-.14190	-.13230	-.17080	-.17080	-.09560	-.05420	591.80000
1.601	6.207	-.00030	-.12930	-.07190	-.20110	-.12480	-.12340	-.16650	-.16650	-.08140	-.05160	591.80000
1.601	7.222	.00710	-.12620	-.07130	-.19740	-.10190	-.11770	-.15540	-.15540	-.07120	-.04900	591.80000
1.601	9.238	.06300	-.11750	-.07170	-.18920	-.04990	-.11230	-.11850	-.11850	-.10670	-.04650	591.80000
GRADIENT		-.00261	.00050	.00001	.00050	.00452	-.00263	-.00076	-.00076	.00528	-.00034	-1.00000

RUN NO. 84/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHEI	CHEO	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-5.416	.04530	-.11230	-.06130	-.17380	-.15470	-.07510	-.13570	-.13570	-.13930	-.06200	579.90000
2.002	-3.363	.04920	-.11840	-.06170	-.18010	-.16490	-.08420	-.15190	-.15190	-.14640	-.06340	579.90000
2.002	-1.325	.02890	-.12020	-.06120	-.18130	-.15990	-.11290	-.15910	-.15910	-.14280	-.06510	579.90000
2.002	-.306	.00690	-.12070	-.06160	-.18230	-.16120	-.12810	-.15940	-.15940	-.13680	-.06640	579.90000
2.002	.729	-.01060	-.12070	-.06160	-.18230	-.15880	-.12800	-.15860	-.15860	-.11750	-.06700	579.90000
2.002	2.758	-.03290	-.11920	-.06230	-.18150	-.14250	-.12060	-.15770	-.15770	-.07250	-.06680	579.90000
2.002	4.806	-.03360	-.11830	-.06250	-.18080	-.12880	-.11230	-.15360	-.15360	-.05390	-.06420	579.90000
2.002	5.931	-.02270	-.11750	-.06240	-.17980	-.10880	-.10700	-.14140	-.14140	-.04980	-.06690	579.90000
2.002	6.844	.00230	-.11620	-.06270	-.17900	-.07530	-.09480	-.12740	-.12740	-.04500	-.06620	579.90000
2.002	8.892	.07430	-.11010	-.06240	-.17250	-.04000	-.06120	-.11370	-.11370	-.05980	-.06340	579.90000
GRADIENT		-.01104	.00008	-.00013	-.00005	.00450	-.00273	-.00003	-.00003	.01284	-.00014	-1.00000

ARC 97-747 Q4536 B C H F W1 V MOM. RN/L

(8EK042) (12 MAR 74)

REFERENCE DATA

REF = 2.4210 90.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1094 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
 AILRON = 5.000 BDFLAP = -11.700
 SPOBRK = 55.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = 5.000

RUN NO. 85/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHEY	CHUL	CHLL	CHUR	CHLR	CHBF	q
1.601	-1.482	-.00410	.02890	-.01780	.01110	-.17870	-.15810	-.17850	-.13480	.00580	598.10000
1.601	-.188	-.00470	.01670	-.02390	-.00720	-.17860	-.13600	-.17570	-.13230	.00230	598.10000
1.601	1.363	-.00380	.00410	-.03110	-.02700	-.17180	-.13230	-.17100	-.12930	-.00100	598.10000
1.601	3.418	-.00290	-.01310	-.04010	-.03320	-.16320	-.12820	-.16470	-.12580	-.00620	598.10000
1.601	5.495	-.02340	-.03180	-.04760	-.07940	-.16010	-.12490	-.15940	-.12220	-.01040	598.10000
1.601	7.562	-.00280	-.03370	-.05030	-.10420	-.15370	-.12130	-.15380	-.11870	-.01940	598.10000
1.601	9.616	-.00330	-.07510	-.05690	-.13160	-.14910	-.11920	-.14900	-.11690	-.03180	598.10000
1.601	12.740	-.00270	-.10910	-.06590	-.17500	-.14300	-.11590	-.14320	-.11300	-.04450	598.10000
1.601	15.850	-.00110	-.14640	-.07850	-.22480	-.13840	-.11380	-.13890	-.11220	-.06020	598.10000
1.601	18.960	-.00090	-.17790	-.08720	-.26520	-.13200	-.11070	-.13350	-.10830	-.07130	598.10000
1.601	22.080	.00160	-.20200	-.09590	-.29710	-.12680	-.09840	-.12870	-.09810	-.08220	598.10000
1.601	25.210	.00670	-.22220	-.10150	-.33390	-.13020	-.09230	-.13270	-.09650	-.09810	598.10000
1.601	28.360	.01180	-.24500	-.11030	-.35530	-.12290	-.08170	-.13230	-.08410	-.11820	598.10000
GRADIENT	.00029	-.00851	-.00455	-.01066	-.01198	.00283	.00206	.00285	.00174	-.00242	.00000

RUN NO. 86/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHEY	CHUL	CHLL	CHUR	CHLR	CHBF	q
2.002	-1.492	-.00350	.01330	-.01270	.05540	-.15720	-.11830	-.15700	-.11500	.00200	586.00000
2.002	-.208	-.00410	.00310	-.01790	-.01480	-.15460	-.11650	-.15340	-.11350	-.00540	586.00000
2.002	1.335	-.00320	-.01020	-.02390	-.03410	-.14970	-.11460	-.14960	-.11180	-.00350	586.00000
2.002	3.397	-.00370	-.02610	-.03180	-.03790	-.14430	-.11210	-.14430	-.10840	-.00890	586.00000
2.002	5.449	-.00280	-.04400	-.03870	-.08270	-.13910	-.10970	-.13980	-.10610	-.01260	586.00000
2.002	7.521	-.00200	-.06390	-.04480	-.10860	-.13370	-.10630	-.13450	-.10350	-.01810	586.00000
2.002	9.565	-.00160	-.08070	-.05020	-.13090	-.12940	-.10320	-.13000	-.10080	-.02390	586.00000
2.002	12.650	-.00160	-.10350	-.05860	-.16230	-.12300	-.09900	-.12400	-.09640	-.03780	586.00000
2.002	15.770	.00190	-.12560	-.06590	-.19150	-.11900	-.09410	-.11990	-.09510	-.05080	586.00000
2.002	18.870	.00640	-.14750	-.07360	-.22110	-.11250	-.08310	-.11340	-.08850	-.06710	586.00000
2.002	21.970	.00690	-.17230	-.08410	-.25640	-.10480	-.07010	-.10660	-.07520	-.08530	586.00000
2.002	25.100	.00610	-.19890	-.09320	-.29210	-.09610	-.05660	-.10050	-.05830	-.10880	586.00000
2.002	28.960	.01060	-.21800	-.10110	-.31910	-.07410	-.03250	-.08410	-.03310	-.13610	586.00000
GRADIENT	.00002	-.00810	-.00390	-.01198	-.01198	.00270	.00126	.00258	.00135	-.00223	.00000

ARC 87-747 04538 B C M F VI V NOM. RN/L

(BEK043) (12 MAR 74)

REFERENCE DATA

BREF = 2.421/ 58.57. XWP = 32.3010 IN.
 LREF = 14.244 IN. WMRP = .0500 IN.
 BREF = 20.100 IN. WMRP = 11.2500 IN.
 SCALE = .0500 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AILROM = 15.000 8DFLAP = -11.700
 SPDPRK = 55.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = -15.000

RUN NO. 88/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	C _{DR}	C _{HEI}	C _{HEO}	C _{HET}	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.601	-1.465	-.00040	.1240	.04920	.28160	-.17200	-.12130	-.17270	-.12020	.02030	592.70000
1.601	-1.193	.00090	.02170	.04340	.26510	-.17150	-.11910	.17300	-.11860	.01770	592.70000
1.601	1.354	.00350	.21250	.04010	.25260	-.16970	-.11660	-.17080	-.11590	.01380	592.70000
1.601	3.429	.00030	.15630	.03200	.22030	-.16600	-.11320	-.16710	-.11290	.00790	592.70000
1.601	5.489	.00080	.16740	.02270	.19010	-.16050	-.10990	-.16140	-.10990	.00140	592.70000
1.601	7.562	.00060	.15000	.01610	.16610	-.15470	-.10710	-.15560	-.10680	-.00670	592.70000
1.601	9.618	.00100	.12290	.01010	.13300	-.14920	-.10400	-.15030	-.10360	-.01800	592.70000
1.601	12.730	.00020	.07110	.00120	.07230	-.14460	-.10120	-.14540	-.10070	-.03120	592.70000
1.601	15.640	.00280	.02980	-.00800	.02180	-.13930	-.09870	-.14040	-.10050	-.04470	592.70000
1.601	18.950	.00430	.00050	-.01520	-.01470	-.13130	-.09460	-.13360	-.09650	-.05590	592.70000
1.601	22.060	.00450	-.02130	-.02220	-.04350	-.13100	-.08610	-.13320	-.08840	-.07260	592.70000
1.601	25.180	.00790	-.04870	-.02870	-.07740	-.13400	-.08110	-.13710	-.08590	-.08640	592.70000
1.601	28.110	.01560	-.06030	-.03040	-.09090	-.12110	-.06830	-.13460	-.07040	-.11910	592.70000
GRADIENT		.00018	-.00883	-.00338	-.01221	.00125	.00165	.00122	.00152	-.00255	-.00000

RUN NO. 89/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	C _{DR}	C _{HEI}	C _{HEO}	C _{HET}	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-1.495	-.00990	.17190	.04650	.21850	-.15570	-.10610	-.15090	-.10110	.01000	584.50000
2.002	-1.201	-.01020	.15120	.04020	.19740	-.15490	-.10540	-.15060	-.09940	.00800	584.50000
2.002	1.341	-.00970	.14510	.03530	.18040	-.15170	-.10390	-.14790	-.09800	.00450	584.50000
2.002	3.397	-.00920	.12710	.02820	.15320	-.14640	-.10090	-.14320	-.09500	.00060	584.50000
2.002	5.446	-.00800	.10470	.02210	.12670	-.14080	-.09840	-.13830	-.09280	-.00360	584.50000
2.002	7.500	-.00740	.08330	.01590	.09890	-.13540	-.09490	-.13290	-.08990	-.01050	584.50000
2.002	9.582	-.00720	.05990	.01040	.07030	-.13030	-.09200	-.12850	-.08690	-.02930	584.50000
2.002	12.660	-.00740	.03480	.00320	.03800	-.12400	-.08740	-.12150	-.08290	-.04430	584.50000
2.002	15.800	-.00490	.01550	-.00470	.01070	-.11940	-.08290	-.11750	-.07990	-.05990	584.50000
2.002	18.860	-.00010	-.00830	-.01330	-.02150	-.11220	-.07160	-.11090	-.07260	-.07780	584.50000
2.002	21.950	.00300	-.03210	-.02020	-.05230	-.10440	-.05820	-.10440	-.06120	-.07780	584.50000
2.002	25.080	.00640	-.05270	-.02590	-.07860	-.09440	-.04320	-.09680	-.04720	-.10150	584.50000
2.002	28.990	.00710	-.06580	-.02960	-.09540	-.07430	-.02270	-.07790	-.02620	-.12390	584.50000
GRADIENT		.00017	-.00899	-.00366	-.01269	.00196	.00108	.00164	.00122	-.00196	-.00000

ARC 97-747 Q4538 B C M F W I V MOM. RN/L

(BER044) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 30-FT. YMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 SREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

BETA = .000 ELEVOM = -10.000
 AIRLOW = 15.000 BDFAP = -11.700
 SPDBRK = 59.000 RUDDER = .000
 ELEV-L = 5.000 ELEV-R = -25.000

PARAMETRIC DATA

RUN NO. 81/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHRF	Q
1.000	-1.469	-.00690	.31460	.05840	.37500	-.17610	-.13680	-.17570	-.13240	.02620	600.20000
1.000	-1.194	-.00640	.30790	.04930	.35720	-.17590	-.13530	-.17330	-.13150	.02290	600.20000
1.000	1.365	-.00620	.29260	.04050	.33260	-.17290	-.13310	-.16870	-.12920	.01930	600.20000
1.000	3.428	-.00620	.27380	.03100	.30480	-.16700	-.12930	-.16410	-.12590	.01440	600.20000
1.000	5.488	-.00610	.24600	.02460	.27060	-.16120	-.12640	-.15840	-.12300	.01090	600.20000
1.000	7.526	-.00630	.22460	.02010	.24470	-.15600	-.12370	-.15310	-.12040	.00320	600.20000
1.000	9.608	-.00560	.19240	.01800	.21030	-.15000	-.12020	-.14750	-.11710	-.00580	600.20000
1.000	12.710	-.00630	.14730	.01260	.15990	-.14450	-.11790	-.14200	-.11410	-.01760	600.20000
1.000	15.830	-.00470	.08740	.00650	.09400	-.14010	-.11600	-.13830	-.11320	-.03490	600.20000
1.000	18.950	-.00640	.06140	.00100	.06250	-.13300	-.11260	-.13140	-.10780	-.04980	600.20000
1.000	22.090	-.00490	.03270	-.00400	.02860	-.12920	-.10100	-.12700	-.09830	-.06790	600.20000
1.000	25.180	.00200	-.00210	-.00910	-.01120	-.12810	-.09210	-.12790	-.09440	-.08580	600.20000
1.000	29.110	-.00980	-.00510	-.01050	-.01560	-.13200	-.08670	-.12910	-.07980	-.10930	600.20000
GRADIENT		.00005	-.00855	-.00556	-.01411	.00226	.00134	.00243	.00136	-.00240	-.00000

RUN NO. 90/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHRF	Q
2.002	-1.459	-.00700	.24150	.05480	.29530	-.15430	-.10920	-.15020	-.10630	.01270	565.80000
2.002	-1.198	-.00700	.22950	.04460	.27400	-.15170	-.10860	-.14850	-.10480	.01030	565.80000
2.002	1.337	-.00870	.21720	.04340	.26260	-.14800	-.10690	-.14460	-.10350	.00690	565.80000
2.002	3.380	-.00830	.19850	.03740	.23580	-.14260	-.10430	-.13980	-.10080	.00410	565.80000
2.002	5.450	-.00820	.16520	.03470	.19990	-.13730	-.10230	-.13480	-.09860	.00010	565.80000
2.002	7.498	-.00420	.13840	.02710	.16540	-.13210	-.09900	-.13080	-.09620	-.00610	565.80000
2.002	9.556	-.00350	.11180	.02430	.13610	-.12670	-.09580	-.12570	-.09330	-.01190	565.80000
2.002	12.640	-.00340	.08900	.01480	.10300	-.12030	-.09160	-.11930	-.08920	-.02490	565.80000
2.002	15.730	-.00060	.06690	.00800	.07490	-.11650	-.08710	-.11500	-.08800	-.04000	565.80000
2.002	18.810	.00320	.03760	.00150	.03910	-.11100	-.07610	-.10960	-.08070	-.03670	565.80000
2.002	21.950	.00360	.00800	-.00470	.00330	-.10470	-.06400	-.10420	-.06830	-.07420	565.80000
2.002	25.060	.00310	-.01250	-.00960	-.02210	-.09270	-.04240	-.09490	-.05030	-.09390	565.80000
2.002	28.940	.00180	-.01950	-.01260	-.03220	-.07520	-.03180	-.07860	-.03020	-.11450	565.80000
GRADIENT		.00015	-.00979	-.00314	-.01195	.00243	.00104	.00220	.00111	-.00180	.00000

DATE 16 JUL 74

TABULATED SOURCE DATA - 04138

PAGE 145

ARC 97-747 04538 B C M F W1 V NOM. RN/L

(BEX045) (12 MAR 74)

REFERENCE DATA

REF Z 2.42.0 98.0 FT. 4RP = 32.3010 IN.
 REF Z 14.2440 IN. 1AR = .0000 IN.
 REF Z 26.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0000 SCALE

BETA = .000 ELEVOM = -20.000
 AILROM = 9.000 BOFLAP = -11.700
 SPDPRK = 55.000 RUDDER = .000
 ELEV-L = -15.000 ELEV-R = -25.000

PARAMETRIC DATA

RUN NO. 93/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.000	-1.776	-0.0610	.31430	.05740	.37170	-.18160	-.13230	-.17930	-.12840	.03630	598.40000
1.000	-1.198	-0.05990	.30690	.04910	.35600	-.17990	-.13110	-.17780	-.12740	.03450	598.40000
1.000	1.327	-0.0610	.29200	.03940	.33140	-.17720	-.12900	-.17450	-.12560	.03140	598.40000
1.000	5.403	-0.0510	.27250	.02990	.30240	-.17120	-.12570	-.16900	-.12280	.02990	598.40000
1.000	5.496	-0.0473	.24540	.02460	.26990	-.16550	-.12290	-.16330	-.12020	.02990	598.40000
1.000	7.572	-0.0350	.21970	.02000	.23970	-.15980	-.12010	-.15750	-.11710	.01360	598.40000
1.000	9.642	-0.0440	.18890	.01800	.20890	-.15400	-.11700	-.15240	-.11440	.00510	598.40000
1.000	12.720	-0.0610	.14460	.01260	.15720	-.14870	-.11320	-.14660	-.11120	-.00660	598.40000
1.000	15.830	-0.0520	.08630	.00600	.09230	-.14320	-.11310	-.14150	-.10960	-.02350	598.40000
1.000	18.920	-0.0840	.06110	.00050	.06160	-.13510	-.10910	-.13260	-.10320	-.03960	598.40000
1.000	22.120	-0.0690	.03170	-.00450	.02720	-.13010	-.09600	-.12750	-.09170	-.05840	598.40000
1.000	25.160	-0.0140	-.00150	-.00970	-.01120	-.13360	-.08990	-.13170	-.09050	-.07310	598.40000
1.000	29.100	-0.0210	-.00460	-.01090	-.01570	-.13190	-.07890	-.12600	-.07270	-.09320	598.40000
GRADIENT		.00018	-.00875	-.00365	-.01440	.00214	.00137	.00215	.00116	-.00215	.00000

RUN NO. 92/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-1.476	-0.0230	.24130	.05600	.29730	-.15700	-.10810	-.15510	-.10770	.01940	565.40000
2.002	-1.209	-0.0170	.22830	.04690	.27430	-.15530	-.10710	-.15370	-.10690	.01790	565.40000
2.002	1.336	-0.0150	.21720	.04880	.26400	-.15130	-.10390	-.15040	-.10550	.01550	565.40000
2.002	5.358	-0.0120	.19810	.03990	.23810	-.14620	-.10350	-.14590	-.10240	.01200	565.40000
2.002	5.464	-0.0020	.16580	.03610	.20190	-.14090	-.10060	-.14140	-.10030	.00870	565.40000
2.002	7.520	-0.0070	.13940	.02860	.16800	-.13590	-.09770	-.13640	-.09790	.00240	565.40000
2.002	9.522	-0.0000	.11510	.02400	.13920	-.13080	-.09530	-.13150	-.09520	-.00200	565.40000
2.002	12.630	-0.0100	.09030	.01600	.10620	-.12420	-.09120	-.12530	-.09110	-.01590	565.40000
2.002	15.730	-0.0320	.06710	.00840	.07550	-.12000	-.08740	-.12090	-.08970	-.03470	565.40000
2.002	18.840	-0.0610	.03700	.00150	.03860	-.11450	-.07710	-.11620	-.08150	-.04940	565.40000
2.002	21.950	-0.0470	.00690	-.00470	.00420	-.10920	-.06580	-.11120	-.05840	-.06600	565.40000
2.002	25.010	-0.0390	-.00390	-.00990	-.02290	-.09800	-.05150	-.10250	-.05140	-.08470	565.40000
2.002	28.950	-0.0320	-.01910	-.01260	-.03170	-.07680	-.03030	-.08250	-.02760	-.10270	565.40000
GRADIENT		.00021	-.00875	-.00269	-.01162	.00229	.00096	.00194	.00111	-.00154	.00000

ARC 97-747 04538 B C M F W1 V NOM. RM/L

(BER046) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 36.FT. XREF = 32.3010 IN.
 LREF = 14.2446 IN. YREF = .0000 IN.
 BREF = 28.1004 IN. ZREF = 11.2500 IN.
 SCALE = .0300 SCALE

RUN NO. 94/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHEI	CHUL	CHUL	CHUR	CHLR	CHBF	Q
1.001	-5.159	.03540	.05800	-.00430	.05170	-.21380	-.17850	-.21210	-.21560	.01310	589.70000
1.001	-5.105	.07820	.06190	-.00430	.05770	-.21180	-.18510	-.23950	-.21960	.01470	589.70000
1.001	-1.042	.10220	.06330	-.00490	.06040	-.21080	-.15450	-.23960	-.22800	.01770	589.70000
1.001	-.012	.11350	.06860	-.00490	.06160	-.20950	-.15110	-.24020	-.23390	.01860	589.70000
1.001	1.012	.12570	.06880	-.00420	.06460	-.20760	-.14770	-.24190	-.23900	.01740	589.70000
1.001	5.079	.15360	.07250	-.00320	.06950	-.20240	-.13980	-.24540	-.25040	.01430	589.70000
1.001	5.143	.18530	.07650	-.00230	.07410	-.18710	-.13150	-.24800	-.25590	.01250	589.70000
GRADIENT		.01212	.00171	.00022	.00192	.00132	.00401	-.00155	-.00502	-.00007	-.00000

PARAMETRIC DATA

ALPHA = .000 ELEVOM = .000
 AIRLON = .000 BDFLAP = -11.700
 SPDRK = 85.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 99/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHEI	CHUL	CHUL	CHUR	CHLR	CHBF	Q
2.002	-5.549	.01750	.03720	-.00640	.03580	-.18050	-.16530	-.19050	-.18190	.00360	583.70000
2.003	-5.476	.07150	.03860	-.00570	.03260	-.18430	-.14660	-.21440	-.19000	.00440	583.70000
2.002	-1.418	.10710	.03910	-.00470	.03440	-.17650	-.13470	-.22050	-.19990	.00660	583.70000
2.003	-.391	.12470	.04510	-.00390	.03520	-.17690	-.12900	-.22330	-.20720	.00720	583.70000
2.003	.640	.14790	.04140	-.00330	.03810	-.17430	-.12250	-.22720	-.21740	.00730	583.70000
2.003	2.700	.18700	.04630	-.00190	.04440	-.16900	-.11450	-.23450	-.23590	.00530	583.70000
2.002	4.766	.22610	.05050	-.00070	.04910	-.15860	-.10570	-.24290	-.24970	.00370	583.70000
GRADIENT		.01913	.00149	.00062	.00212	.00296	.00511	-.00347	-.00761	-.00016	-.00000

ARC 97-747 04538 B C M F W1 V MOM. RM/L

(BEK047) (12 MAR 74)

REFERENCE DATA

SHEP = 2.4210 SQ.FT. WHP = 32.3010 IN.
 CREF = 14.2440 IN. WHP = .0000 IN.
 BREF = 28.1024 IN. WHP = 11.2500 IN.
 SCALE = .0300 SCALE

ALPHA = 10.000 ELEVON = .000
 AIRLON = .000 BDFLAP = -11.700
 SPOBCK = 85.000 PUCCP = -10.000
 ELEV-L = .000 ELEV-P = .000

PARAMETRIC DATA

RUN NO. 95/ C RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHP	CHEI	CHEO	CHEI	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.601	-5.041	.54400	-.03200	-.54290	-.08120	-.18290	-.15030	-.15930	-.17800	-.01910	590.90000
1.601	-3.015	.56600	-.03450	-.54350	-.07800	-.17010	-.14030	-.20170	-.18460	-.01900	590.90000
1.601	-.986	.59240	-.03500	-.54210	-.07710	-.17440	-.13080	-.20460	-.19400	-.01500	590.90000
1.601	.525	.60710	-.03430	-.54140	-.07560	-.17300	-.12630	-.20610	-.20590	-.01400	590.90000
1.601	1.044	.62570	-.03310	-.53890	-.07010	-.17020	-.12240	-.20750	-.21080	-.01300	590.90000
1.601	3.073	.65520	-.03370	-.54050	-.07410	-.16250	-.11500	-.20950	-.22390	-.01730	590.90000
1.601	5.097	.68710	-.03670	-.54430	-.08100	-.15560	-.10780	-.21600	-.23440	-.01690	590.90000
1.601	7.137	.72120	-.03940	-.54510	-.08450	-.14820	-.09880	-.21580	-.24440	-.01580	590.90000
1.601	9.170	.75500	-.03310	-.54390	-.07700	-.11590	-.08520	-.21220	-.25490	-.01500	590.90000
GRADIENT		.01465	.00000	.00000	.00092	.00266	.00407	-.00130	-.00864	.00726	-.00000

RUN NO. 98/ D RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHP	CHEI	CHEO	CHEI	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.003	-5.417	.51990	-.04340	-.53630	-.07970	-.15590	-.13800	-.17000	-.14780	-.02290	583.30000
2.003	-3.377	.55190	-.04350	-.53790	-.08320	-.15670	-.13030	-.18030	-.15790	-.02110	583.30000
2.002	-1.359	.59120	-.04820	-.53740	-.08460	-.14920	-.11820	-.18370	-.17430	-.01770	583.30000
2.003	-.346	.60900	-.04980	-.53660	-.08660	-.14700	-.11230	-.18610	-.18220	-.01700	583.30000
2.003	.868	.63100	-.04870	-.53670	-.08540	-.14500	-.10710	-.19010	-.19100	-.01720	583.30000
2.003	2.654	.65320	-.04880	-.53640	-.08520	-.13690	-.09680	-.20300	-.21600	-.02100	583.30000
2.003	4.724	.67120	-.04760	-.53540	-.08290	-.13030	-.08780	-.21140	-.22790	-.02350	583.30000
2.003	6.757	.68930	-.04320	-.53480	-.07600	-.11620	-.07920	-.21650	-.24020	-.02620	583.30000
2.003	8.795	.70300	-.03720	-.53450	-.07160	-.09410	-.07770	-.21900	-.24360	-.02680	583.30000
GRADIENT		.02142	-.00019	.00129	.00010	.00311	.00523	-.00410	-.00899	-.00045	.00000

ARC 97-747 Q4338 B C M F VI V MON. RM/L

(BEK048) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 36-FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2300 IN.
 SCALE = .0000 SCALE

ALPHA = 20.000 ELEVON = .000
 AILRON = .000 BDFLAP = -11.700
 SPDBRK = 85.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 96/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CNET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.601	-5.046	.08980	-.14260	-.07190	-.21410	-.14690	-.08520	-.14730	-.17470	-.03240	592.70000
1.601	-3.001	.11400	-.14360	-.07260	-.21640	-.14820	-.09290	-.16850	-.18660	-.03520	592.70000
1.601	-.954	.09610	-.14460	-.07180	-.21630	-.14320	-.11520	-.16650	-.19000	-.06160	592.70000
1.601	.063	.10700	-.14400	-.07160	-.21550	-.14050	-.11110	-.16800	-.19060	-.06070	592.70000
1.601	1.091	.11760	-.14280	-.07190	-.21470	-.13270	-.10420	-.17220	-.18240	-.03980	592.70000
1.601	3.131	.09840	-.13980	-.07130	-.21130	-.12510	-.09280	-.17950	-.13680	-.03810	592.70000
1.601	5.177	.08950	-.13350	-.07220	-.20570	-.11980	-.08590	-.18620	-.10910	-.03460	592.70000
1.601	7.225	.07750	-.12610	-.07230	-.19830	-.09010	-.07930	-.16540	-.08150	-.03030	592.70000
1.601	9.282	.12190	-.11020	-.07190	-.19010	-.04570	-.08120	-.12430	-.12440	-.04750	592.70000
GRADIENT		-.03124	.00067	.00016	.00083	.00400	.00055	-.00189	.00768	-.00034	-.00000

RUN NO. 97/ 0 RM/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CNET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-5.413	.12670	-.11230	-.06050	-.17280	-.12610	-.03590	-.13780	-.16390	-.08160	583.70000
2.002	-3.365	.14920	-.11790	-.06130	-.17940	-.13400	-.03620	-.16340	-.17590	-.06350	583.70000
2.002	-1.322	.11620	-.11970	-.06230	-.18200	-.13360	-.08300	-.16260	-.17020	-.06690	583.70000
2.002	-.207	.11040	-.11980	-.06260	-.18260	-.12860	-.08030	-.16550	-.15400	-.06600	583.70000
2.002	.714	.10310	-.12020	-.06280	-.18350	-.12100	-.07860	-.16990	-.13270	-.06650	583.70000
2.003	2.756	.05960	-.11930	-.06330	-.18280	-.11440	-.07630	-.17110	-.07920	-.06710	583.70000
2.002	4.800	.04770	-.11910	-.06370	-.18280	-.10630	-.07240	-.16830	-.06010	-.06530	583.70000
2.003	6.840	.04900	-.11720	-.06380	-.18100	-.07120	-.06710	-.13750	-.04980	-.06750	583.70000
2.003	8.886	.05920	-.11210	-.06410	-.17620	-.04090	-.04720	-.12770	-.05960	-.06530	583.70000
GRADIENT		-.01277	-.00008	-.00027	.00035	.00372	-.00109	-.00071	.01609	-.00010	.00000

ARC 97-747 Q4538 B C M F W I V MOM. RN/L SEAL.EL

(BERG49) (12 MAR 74)

REFERENCE DATA

REF = 2.4277 IN FT. 100/0 = 32.301 IN.
 REF = 14.824 IN 100/0 = .0000 IN.
 REF = 28.1574 IN 100/0 = 11.2500 IN.
 SCALE = .0500 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 15.000
 AIRLOW = .000 BDFLAP = 16.300
 SPDBRK = 55.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = 15.000

RUN NO. 100/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEJ	CHEK	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.601	-1.466	-0.0840	-0.0825	-0.0590	-1.4210	-1.7130	-1.3480	-1.6910	-1.3540	-1.0590	590.60000
1.601	-1.197	-0.0625	-0.0560	-0.0610	-1.1500	-1.7030	-1.3330	-1.6830	-1.2860	-1.0780	590.60000
1.601	1.331	-0.0550	-0.0530	-0.0670	-1.1720	-1.6710	-1.3040	-1.6620	-1.2640	-1.2130	590.60000
1.601	3.413	-0.0550	-1.2420	-0.0750	-1.1920	-1.6280	-1.2670	-1.6110	-1.2290	-1.2400	590.60000
1.601	5.479	-0.0550	-1.1430	-0.0810	-1.2350	-1.5740	-1.2340	-1.5590	-1.1980	-1.2500	590.60000
1.601	7.544	-0.0550	-1.0760	-0.0910	-1.2580	-1.5240	-1.2230	-1.5100	-1.1670	-1.2850	590.60000
1.601	9.616	-0.0550	-1.0050	-0.0970	-1.2830	-1.4720	-1.1770	-1.4570	-1.1360	-1.3120	590.60000
1.601	12.720	-0.0550	-0.9190	-0.1020	-1.3080	-1.4190	-1.1300	-1.4040	-1.1120	-1.3420	590.60000
1.601	15.820	-0.0540	-0.8290	-0.1070	-1.3340	-1.3660	-1.1350	-1.3710	-1.0990	-1.3740	590.60000
1.601	18.930	-0.0560	-0.7360	-0.1260	-1.3600	-1.3500	-1.1250	-1.3220	-1.0710	-1.4010	590.60000
1.601	22.050	-0.0820	-0.2930	-0.1330	-1.3860	-1.3490	-1.0440	-1.3130	-0.9990	-1.4300	590.60000
1.601	25.170	-0.0510	-0.2410	-0.1430	-1.4120	-1.3500	-0.9680	-1.3340	-0.9780	-1.4520	590.60000
1.601	28.290	-0.0530	-0.3280	-0.1430	-1.4380	-1.3860	-0.8670	-1.3230	-0.9360	-1.4780	590.60000
GRADIENT		.00019	-0.0847	-0.0325	-0.0173	.00180	.00166	.00174	.00153	-0.0293	.00000

RUN NO. 101/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEJ	CHEK	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-1.470	-0.0590	-0.0700	-0.0490	-1.1120	-1.5640	-1.1800	-1.1640	-1.1300	-1.1830	580.10000
2.002	-2.13	-0.050	-0.0780	-0.0490	-1.0770	-1.4960	-1.1810	-1.1460	-1.1160	-1.1710	580.10000
2.002	1.338	-0.050	-0.0500	-0.0590	-1.1460	-1.4800	-1.1680	-1.1350	-1.0370	-1.1820	580.10000
2.002	3.389	-0.0590	-1.0750	-0.0620	-1.1700	-1.4220	-1.1350	-1.1970	-1.0670	-1.2180	580.10000
2.002	5.443	-0.0590	-1.0470	-0.0690	-1.1930	-1.3810	-1.1110	-1.1570	-1.0460	-1.2120	580.10000
2.002	7.498	-0.0580	-1.1450	-0.0760	-1.2040	-1.3200	-1.0770	-1.1290	-1.0170	-1.2400	580.10000
2.002	9.551	-0.0580	-1.1620	-0.0840	-1.2570	-1.2660	-1.0420	-1.1210	-0.9950	-1.2690	580.10000
2.002	12.650	-0.0580	-1.1830	-0.0940	-1.2780	-1.2100	-1.0030	-1.1170	-0.9410	-1.2930	580.10000
2.002	15.750	-0.0640	-1.2090	-0.1060	-1.3190	-1.1680	-0.9610	-1.1470	-0.9180	-1.3180	580.10000
2.002	18.850	-0.0580	-1.2370	-0.1180	-1.3620	-1.1200	-0.9220	-1.1540	-0.8820	-1.3480	580.10000
2.002	21.950	-0.0590	-1.2670	-0.1300	-1.3790	-1.0830	-0.8710	-1.0880	-0.8410	-1.3740	580.10000
2.002	25.050	-0.0540	-1.2940	-0.1410	-1.3940	-1.0960	-0.8590	-1.0970	-0.8560	-1.4080	580.10000
2.002	28.150	-0.0510	-1.3230	-0.1430	-1.4780	-1.0720	-0.8240	-1.0760	-0.8360	-1.4380	580.10000
GRADIENT		.00059	-0.0574	-0.0372	-0.0116	.00173	.00112	.00143	.00130	-0.00816	.00000

ARC 97-747 04538 B C M F W1 V NOM. RN/L SEAL.EL

(8E050) (12 MAR 74)

REFERENCE DATA

BRZF = 2.4810 86.FT. XMRP = 32.3010 IN.
 LRCP = 14.2440 IN. YMRP = .0000 IN.
 BRCP = 20.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AIRLON = .000 BDELAP = 16.300
 SPDRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 102/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CHEI	CHEO	CHEY	CHUL	CHLL	CHUR	CHLR	CHBF
1.000	-1.471	-.00020	.08170	.00260	-.08430	-.16930	-.12800	-.17060	-.12740	-.17750
1.000	-.198	.00000	.06760	-.00450	-.06320	-.16830	-.12870	-.17000	-.12520	-.18630
1.000	1.370	.00010	.03230	-.01140	.04090	-.16630	-.12380	-.16760	-.12260	-.19770
1.000	5.421	.00010	.03230	-.02090	.01160	-.16220	-.11980	-.15320	-.11880	-.21440
1.000	5.463	.00030	.01450	-.02990	-.01310	-.15660	-.11680	-.15770	-.11600	-.23190
1.000	7.525	.00140	-.00550	-.03310	-.03870	-.15130	-.11390	-.15330	-.11330	-.25610
1.000	9.597	.00180	-.02630	-.03940	-.06370	-.14620	-.11040	-.14810	-.11030	-.28200
1.000	12.730	.00090	-.06490	-.04930	-.11420	-.14110	-.10880	-.14230	-.10840	-.31610
1.000	15.810	.00310	-.09940	-.05960	-.15990	-.13720	-.10740	-.13860	-.10900	-.34600
1.000	18.930	.00400	-.13510	-.06850	-.20350	-.13110	-.10440	-.13290	-.10630	-.37630
1.000	22.040	.00350	-.16240	-.07710	-.23950	-.12630	-.09330	-.12880	-.09450	-.40870
1.000	25.150	.00810	-.18490	-.08420	-.26910	-.12840	-.08660	-.13120	-.09190	-.43540
1.000	29.050	.00990	-.19180	-.08800	-.27980	-.12520	-.07870	-.13410	-.07960	-.47450
GRADIENT		.00006	-.01000	-.00475	-.01475	.00131	.00185	.00155	.00175	-.00755

RUN NO. 103/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CHEI	CHEO	CHEY	CHUL	CHLL	CHUR	CHLR	CHBF
2.002	-1.472	-.01130	.05050	.00130	.05180	-.15080	-.11340	-.14470	-.10780	-.14740
2.002	-.727	-.01030	.03940	-.00390	.03560	-.14910	-.11260	-.14470	-.10670	-.15540
2.002	1.354	-.00910	.02990	-.01020	.01370	-.14630	-.11040	-.14330	-.10470	-.16580
2.002	3.396	-.00840	.00900	-.01810	-.00900	-.14180	-.10730	-.13890	-.10180	-.18030
2.002	5.409	-.00810	-.00930	-.02440	-.03370	-.13630	-.10520	-.13400	-.09950	-.19880
2.002	7.550	-.00650	-.02890	-.03100	-.06000	-.13070	-.10160	-.12920	-.09660	-.21990
2.002	9.546	-.00490	-.04580	-.03610	-.08190	-.12490	-.09770	-.12390	-.09390	-.24050
2.002	12.850	-.00610	-.06940	-.04370	-.11310	-.11860	-.09360	-.11700	-.08920	-.27420
2.002	15.770	-.00220	-.09140	-.05110	-.14250	-.11480	-.08960	-.11340	-.08780	-.30590
2.002	18.840	.00410	-.11300	-.05790	-.17080	-.10970	-.07640	-.10900	-.08120	-.34780
2.002	19.880	.00470	-.11920	-.06130	-.18030	-.10830	-.07250	-.10750	-.07850	-.38290
2.002	21.960	.00590	-.13680	-.06670	-.20350	-.10290	-.06370	-.10260	-.06980	-.38870
2.002	23.080	.00770	-.16160	-.07520	-.23680	-.09260	-.04850	-.09320	-.05360	-.43040
2.002	26.970	.00820	-.18110	-.08230	-.26340	-.08840	-.02320	-.07480	-.02700	-.47410
GRADIENT		.00060	-.00451	-.00398	-.01248	.00181	.00129	.00121	.00125	-.00676